

AOSO

aeromet

BLM LIBRARY



88064803

U-a/U-b Tracts

aeromet inc.

P.O. BOX FF NORMAN, OKLAHOMA 73070
405 329-2424

IN
889
1183
884
10/27

7700256

#88064803

BLM Library
D-553A, Building 50
Denver Federal Center
P. O. Box 25047
Denver, CO 80225-0047

TN
2-7
2-7
2-7
106

MONTHLY PROGRESS REPORT NO. 8
for the period October 1-31, 1976
to
ENVIRONMENTAL PROTECTION AGENCY
REGION VIII

1860 Lincoln St., Suite 900
Denver, CO 80203

Contract No. 68-01-1946

by

Aeromet, Inc.
Box FF
Norman, OK 73070

Utah U-a/U-b Tract

1.0 INTRODUCTION

Low level temperature and wind data were collected for October, 1976 at Casper, Wyoming; the Shell Oil Co. Colorado C-b Tract 25 miles west of Rio Blanco, Colorado; Craig, Colorado; Escalante and Hanksville, Utah; Rock Springs, Wyoming; and the U-a/U-b Tract 5 miles south of Bonanza, Utah. The data collection was made using a 30 gm helium filled pilot balloon with a temperature sonde attached, a single theodolite and a TSR-2 receiver/recorder twice a day every other day. The observations were made $\frac{1}{2}$ hour after sunrise and 1400L.

The pilot balloon had an ascent rate of 500 ft/min and it was tracked by a single theodolite for 12 minutes with the azimuth and elevation angles recorded every 30 seconds on a cassette tape recorder. The tape was transcribed to a pilot balloon form after the observation.

The temperature sonde operated at 403 MHz and the signal was received by a ground plane antenna at least 24 ft. AGL which was attached to the Aeromet, Inc. TSR-2 receiver/recorder. The TSR-2 receiver has a built-in Rustrak strip chart recorder and the temperature was recorded within the range from -50°C to $+50^{\circ}\text{C}$. A baseline temperature calibration was performed with each T-Sonde by the adjustment of the recorded temperature to match the thermometer measured temperature next to the transmitting sonde. Once the calibration check was finished the balloon was released with the sonde attached and the temperature was recorded for at least 20 minutes. At the completion of each observation the data were mailed to Aeromet, Inc.

The Monthly Progress Report is divided into seven parts, one corresponding to each of the seven field sites. The collected temperature and wind data are accurate and have not been edited unless otherwise stated in the Pilot Balloon Summary section. However, the obvious errors sometimes found in the recorded azimuth and elevation angles are corrected without mention. For example, the sequence of azimuth angles . . . 76.6, 75.3, 47.8, 73.8 . . . can be corrected without ambiguity. The more ambiguous errors are brought to the attention of the reader if editing has been performed, otherwise, the data are left as recorded and the filtering is left to the individual user. An example is the wind profile for Hanksville on 06/29/76 at 1300 MST found in the Monthly Progress Report No. 4. The azimuth angles starting 30 seconds after the launch and incremented by the same are as follows . . . 109.0, 110.0, 110.0, 281.0, 280.0, 282.0 . . . , while the corresponding elevation angles are as follows, . . . 60.0, 57.6, 58.7, 58.6, 52.7, 44.3 The wind speed and direction change dramatically over the interval as can be seen in the report since these data were not edited.

2.0 DATA SUMMARY

2.1 Utah U-a/U-b Tract Field Summary

The seventh low level temperature and wind data collection site was established in mid September with regular data collection commencing 1 October. The site was erected at the U-a/U-b Tract approximately 5 miles south of Bonanza, Utah. No problems were experienced during the first month of operation.

The observer attempted 100% of the scheduled pilot balloon launches resulting in 100% recovery of the temperature data and 97% recovery of the wind data. Poor weather conditions were the cause of the 3% loss in wind data.

2.2 Mixing Layer Height

The average mixing layer height was computed for the morning and afternoon based on the morning and 1400L temperature soundings. The balloon release $\frac{1}{2}$ hour after sunrise is near enough to the minimum temperature to assume the correctness of the calculated mixing layer heights. The afternoon balloon release is generally not at the time of maximum heating and the user of the mixing layer height data must be aware that minor changes in the calculated values can be expected. Without equipping the field sites with minimum/maximum thermometers the extrapolation of the afternoon data can not be justified in establishing a data base for statistical analysis. The approximation of the afternoon maximum temperature would be a "calculated guess" for there are: 1) local effects which are to be determined and would be filtered out with extrapolation, 2) mountain effects which alter the lower 1500m (e.g. downslope effects), and 3) meteorological effects which can alter the expected change in the sounding (e.g. advection, moisture, etc.).

It is felt that to better define the mixing layer height that a variety of "heat island" effects should be viewed. The rigorous method would be to define 15 "heat island" effects ranging from 0 to 14°C and let the user decide which would best serve his needs. However, for these analysis 0°, +5° and +10° "heat island" effects are calculated and listed for the morning and afternoon soundings in the table Average Mixing Layer Height.

The symbol N/D means that no mixing layer height was defined and sfc is the abbreviation for surface.

2.3 Stability and Inversion Classification

The temperature and wind data were edited to remove data felt to cause anomalous results in the stability and inversion classification schemes. Only the stations listed prior to the table classifying the inversions were used in the calculations.

3.0 DATA PROCESSING

3.1 Printed and Plotted Output

Wind speeds and directions are computed from the azimuth and elevation angles measured while tracking the balloon with the theodolite. The wind speed and direction are plotted versus height and printed out at 30 second intervals. The printed output includes the AGL and MSL height of the calculated wind value and the orthogonl components of the wind. The wind profile is also punched on computer cards at 30 second intervals.

The temperature data are processed and plotted with the temperature and the lapse rate per 300 meters versus height at 15 second intervals. Tic marks are placed on the temperature plot at significant levels. A solid line to the right side of the plot indicates the data for that layer are interpolated temperature values. The temperature data are also printed out and punched on cards. The asterisk beside a height value indicates a significant level while a "?" indicates interpolated data.

The temperature data are also processed to produce for each site a monthly summary of inversion layers and lapse rates within the inversions and from the inversion base to the surface by means of the Holzworth classification scheme for inversions (Holzworth, G.C., 1974: "Climatological Data on Atmospheric Stability in the United States" Paper presented at the American Meteorological Society Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974. Santa Barbara, California.)

The temperature and wind data are processed together to produce for each site a monthly average bivariate frequency distribution of wind direction versus wind speed represented in the 500m layer adjacent to the ground. The distribution is presented by the six Pasquill stability classes (A-F) and a summary independent of stability. If the $\Delta T/100m$ criterion is met but the wind speed criterion is not met, then the

STABILITY CLASS	ΔT ($^{\circ}C/100m$)	WIND SPEED
A	<-1.9	≤ 2
B	$-1.9 - -1.7$	≤ 5
C	$-1.7 - -1.5$	≤ 6
D	$-1.5 - -0.5$	ALL SPEEDS
E	$-0.5 - 1.5$	≤ 5
F	>1.5	≤ 3

wind data are checked against the criterion for the next stability class, always cascading to the D stability class. Once the wind speed criterion is met the data are classified under the new stability class even though now the lapse rate exceeds the class criterion. For example,

if the $\Delta T/100\text{m}$ value is 1.7 and the wind speed is 7 m/s, the lapse rate criterion is met for the stability class F, however the wind speed criterion is exceeded. The wind speed is greater than the 5 m/s maximum limit for class E but falls within the criterion of class D, which includes all wind speeds. As a result the observational data with a ΔT value of 1.7°C/100 m and a wind speed value of 7 m/s are classified under stability class D, not class F.

The data are also punched on computer cards in a format compatible with the STAR PROGRAM of the National Climatic Center, NOAA, U.S. Department of Commerce.

[illegible]

and the punched distribution data for each wind direction under each stability class in agreement with the "star" output. The stability classes are number coded as follows:

STABILITY CLASS	NUMBER CODE
A	1
B	2
C	3
D	4
E	5
F	6
Independent of Stability	7

The station I.D. numbers are as follows:

STATION	I.D. NUMBER
Casper, Wyoming	1
Colorado C-b Tract	2
Craig, Colorado	3
Escalante, Utah	4
Hanksville, Utah	5
Rock Springs, Wyoming	6
Utah U-a/U-b Tract	7

The month and season number codes are as follows:

MONTH	1-12
SEASON	13 = DJF
	14 = MAM
	15 = JJA
	16 = SON
ANNUAL	17

PILOT BALLOON SUMMARY
Utah U-a/U-b Tract
October, 1976

October 1	0622	Temperature values were interpolated over the interval from 6 to 12 3/4 minutes.
	1310	Balloon was lost in the clouds after 4 1/2 minutes. Temperature values were interpolated over the interval from 12 3/4 to 14 3/4 minutes.
October 3	0712	No wind data were collected due to rain.
	1358	Temperatures were interpolated over the interval from 9 1/4 to 14 3/4 minutes.
October 5	0622	
	1305	
October 7	0630	
	1322	Temperature values were interpolated over the interval from 6 3/4 to 12 1/2 minutes.
October 9	0620	Temperature values were interpolated over the interval from 2 to 13 1/2 minutes.
	1355	
October 11	0625	
	1250	
October 13	0635	
	1300	Temperature values were interpolated over the interval from 10 to 13 1/4 minutes.
October 15	0631	Temperature values were interpolated over the interval from 11 to 13 1/2 minutes.
	1302	Temperature values were interpolated over the interval from 3/4 to 5 1/2 minutes.

PILOT BALLOON SUMMARY
Utah U-a/U-b Tract
October, 1976

October 17	0633	The balloon was lost in the clouds after 2 1/2 minutes. Temperature values were interpolated over the interval from 27 1/2 to 29 1/4.
	1307	Temperature values were interpolated over the interval from 25 1/4 to 28 1/2 minutes. The variance in wind speed is believed to be a result of observation errors.
October 19	0638	Temperature values were interpolated over the interval from 10 1/4 to 12 1/2 minutes.
	1301	
October 21	0650	
	1303	
October 23	0638	
	1257	Temperature values were interpolated over the interval from 11 1/2 to 13 1/2 minutes.
October 25	0638	Balloon was lost in the clouds after 4 1/2 minutes.
	1328	Temperature values were interpolated over the interval from 10 1/4 to 13 1/4 minutes.
October 27	0647	
	1307	
October 29	0648	Temperature values were interpolated over the intervals from 1 3/4 to 6 1/2 and from 7 to 10 1/4 minutes.
	1302	
October 31	0652	
	1355	Temperature values were interpolated over the interval from 10 1/2 to 12 1/2 minutes.

AVERAGE MIXING LAYER HEIGHT

UTAH U-a/U-b TRACT

October, 1976

DATE	MORNING			AFTERNOON		
	0°	+5°	+10°	0°	+5°	+10°
1	sfc	150m	350m	sfc	700m	1950m
3	sfc	1000m		100m	1100m	3400m
5	50m	150m	800m	600m	1450m	2100m
7	sfc	450m	1950m	800m	1650m	2150m
9	sfc	150m	300m	75m	850m	1650m
11	sfc	100m	300m	700m	1300m	2350m
13	sfc	150m	350m	100m	950m	1800m
15	50m	100m	350m	300m	1150m	2750m
17	50m	100m	500m	400m	N/D	N/D
19	sfc	100m	300m	150m	750m	1750m
21	sfc	100m	250m	400m	550m	1500m
23	sfc	75m	200m	700m	2450m	3400m
25	sfc	100m	250m	2600m	N/D	N/D
27	sfc	150m	600m	550m	1500m	2100m
29	sfc	125m	300m	sfc	900m	1800m
31	sfc	150m	250m	250m	1300m	3100m

CLOUD COVER AND SIGNIFICANT WEATHER

UTAH U-a/U-b TRACT

October, 1976

<u>DATE</u>	<u>MORNING</u>	<u>AFTERNOON</u>
1	scattered cirrus	broken, Ci and Cu
3	overcast, rain	broken cumulus
5	clear	broken cirrus
7	scattered cirrus	clear
9	clear	clear
11	overcast	broken
13	clear	clear
15	clear	clear
17	overcast	scattered
19	clear	clear
21	clear	scattered
23	clear	scattered
25	scattered	overcast, storm hit during launch
27	clear	clear
29	clear	clear
31	clear	clear

UTAH UAUB ELEV 1585 METERS SOUNDING ID 33290
DATE 10/01/76 TIME 06:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	724.	0.89	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3347
DATE 10/01/76 TIME 13:10MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	191.	0.31	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 0
DATE 10/03/76 TIME 07:12MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3332
DATE 10/03/76 TIME 13:58MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
381.	495.	0.24	-0.66

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3335
DATE 10/05/76 TIME 06:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	267.	2.24	-0.76

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3330
DATE 10/05/76 TIME 13:05MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
312.	350.	0.24	-1.04

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3331

DATE 10/07/76 TIME 07:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	191.	0.75	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3339

DATE 10/07/76 TIME 13:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
279.	323.	0.0	-1.09

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3335

DATE 10/09/76 TIME 06:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	267.	2.57	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3343

DATE 10/09/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	114.	0.23	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3342

DATE 10/11/76 TIME 06:25MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	419.	1.69	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3341

DATE 10/11/76 TIME 12:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	76.	0.0	-1.36

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3344

DATE 10/13/76 TIME 06:35MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

0.

838.

1.02

0.0

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3340

DATE 10/13/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

114.

267.

0.35

-1.15

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3349

DATE 10/15/76 TIME 06:31MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

0.

648.

1.46

0.0

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3352

DATE 10/15/76 TIME 13:02MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

937.

1127.

0.28

-0.64

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3345

DATE 10/17/76 TIME 06:33MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

38.

267.

2.76

-0.76

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3343

DATE 10/17/76 TIME 13:07MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

169.

207.

0.21

-1.29


```

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3347
DATE 10/19/76      TIME 06:38MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
    0.             724.             1.30              0.0

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3347
DATE 10/19/76      TIME 13:01MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
   204.            357.             0.12             -1.04

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3328
DATE 10/21/76      TIME 06:50MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
    0.             991.             1.21              0.0

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3350
DATE 10/21/76      TIME 13:03MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
   164.            792.             0.23             -1.22

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3322
DATE 10/23/76      TIME 06:38MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
    0.             419.             2.34              0.0

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3324
DATE 10/23/76      TIME 12:57MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
   397.            454.             1.13             -1.04

```



```

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3323
DATE 10/25/76      TIME 06:38MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
0.                381.                1.98                0.0

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3327
DATE 10/25/76      TIME 13:28MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
76.                143.                0.0                -2.41

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3325
DATE 10/27/76      TIME 06:47MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
0.                381.                1.41                0.0

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3317
DATE 10/27/76      TIME 13:07MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
418.                467.                0.75                -1.18

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3320
DATE 10/29/76      TIME 06:48MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
0.                1143.                0.77                0.0

*****
UTAH UAUB          ELEV 1585 METERS          SOUNDING ID 3314
DATE 10/29/76      TIME 13:02MST      ASCENT RATE 500 FPM      DATA INTERVAL 15 SEC.

INV BASE          INV TOP          INV DT/DZ          DT/DZ BELOW INV
METERS AGL        METERS AGL        (DEG C)/100M      (DEG C)/100M
0.                76.                0.0                0.0
*****

```

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3316
DATE 10/31/76 TIME 06:52MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	648.	1.36	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3315
DATE 10/31/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	152.	0.35	-1.75

MONTH: OCTOBER YEAR: 1976. UTAH UAH SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE A STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 2 SOUNDINGS FROM A SAMPLE OF 32 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: OCTOBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC)		GREATER THAN 21	AVERAGE SPEED	TOTAL
				11-16	17-21			
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE B STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 2 SOUNDINGS FROM A SAMPLE OF 32 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: OCTOBER YEAR: 1970. UTAH UAH SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE C STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 2 SOUNDINGS FROM A SAMPLE OF 32 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: OCTOBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NENE	0.0	0.07	0.0	0.0	0.0	0.0	3.2	0.07
E	0.07	0.0	0.0	0.0	0.0	0.0	0.4	0.07
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.14	0.07	0.0	0.07	0.0	0.0	4.9	0.29
WNW	0.07	0.0	0.07	0.0	0.0	0.0	5.14	0.14
NW	0.14	0.0	0.0	0.0	0.0	0.0	3.7	0.21
NNW	0.07	0.0	0.0	0.0	0.0	0.0	1.4	0.14
							0.1	0.07
AVG SPEED	1.3	3.6	8.5	12.9	0.0	0.0		0.0
TOTAL	0.64	0.14	0.14	0.07	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE D STABILITY CLASS IS 0.47

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 2 SOUNDINGS FROM A SAMPLE OF 32 SOUNDINGS DID NOT HAVE
500 M OF TEMP AND WIND DATA

MONTH: OCTOBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.11	0.0	0.0	0.0	0.0	0.0	2.9	0.11
E	0.0	0.11	0.0	0.0	0.0	0.0	4.0	0.11
ESE	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.11
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.11	0.0	0.0	0.0	0.0	0.0	1.9	0.11
S	0.11	0.0	0.0	0.0	0.0	0.0	3.2	0.11
SSW	0.11	0.11	0.0	0.0	0.0	0.0	0.0	0.22
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
W	0.11	0.0	0.0	0.0	0.0	0.0	1.7	0.11
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	1.5	4.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.78	0.22	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE E STABILITY CLASS IS 0.30

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 2 SOUNDINGS FROM A SAMPLE OF 32 SOUNDINGS DID NOT HAVE
500 M OF TEMP AND WIND DATA

MONTH: OCTOBER YEAR: 1970. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.29	0.0	0.0	0.0	0.0	0.0	2.0	0.29
S	0.14	0.0	0.0	0.0	0.0	0.0	2.0	0.14
SSW	0.43	0.0	0.0	0.0	0.0	0.0	1.4	0.43
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.14	0.0	0.0	0.0	0.0	0.0	1.4	0.14
AVG SPEED	1.7	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	1.00	0.0	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE F STABILITY CLASS IS 0.23

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 2 SOUNDINGS FROM A SAMPLE OF 32 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA



UTAH UAUB ELEV 1585 METERS SOUNDING ID 33290
 DATE 10/01/76 TIME 06:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		8.21		0.0		0.5	150.
1.0	150	1735	12.07	3.86	7.78	10.71	1.0	185.
1.5	* 228	1813	13.56		3.24	6.17		
2.0	300	1885	13.74	1.67	0.72	3.65	1.3	219.
2.7	415.	2000.	14.10	0.27	0.72	3.64	0.9	210.
3.3	500	2085	14.28	0.27	0.72	3.64	0.6	198.
6.0	915.	?2500.	13.48	-0.80	-1.80	1.13	1.3	139.
9.3	1415.	?3000.	10.53	-2.95	-1.82	1.11	3.3	183.
15.8	2415.	4000.	6.06	-4.47	-0.74	2.19		
22.4	3415.	5000.	0.64	-5.41	-2.83	0.10		
27.9	4415.	6000.	-8.00	-8.64	-4.06	-1.13		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 33290
 DATE 10/01/76 TIME 06:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-0.3	0.4	0.5	150.
0.5	76.	1661.	-1.2	2.2	2.5	152.
1.0	152.	1737.	0.1	0.9	0.9	186.
1.5	229.	1814.	0.3	1.3	1.4	194.
2.0	305.	1890.	0.8	1.0	1.3	220.
2.5	381.	1966.	0.5	0.6	0.8	216.
3.0	457.	2042.	0.4	0.9	0.9	202.
3.5	533.	2118.	0.1	0.3	0.3	194.
4.0	610.	2195.	0.0	1.0	1.0	180.
4.5	686.	2271.	0.2	1.8	1.8	174.
5.0	762.	2347.	0.6	3.0	3.1	170.
5.5	838.	2423.	0.0	4.1	5.7	136.
6.0	914.	2499.	0.9	1.0	1.3	139.
6.5	991.	2576.	0.4	1.3	1.4	165.
7.0	1067.	2652.	0.7	1.2	1.4	209.
7.5	1143.	2728.	0.5	0.9	1.1	210.
8.0	1219.	2804.	1.0	1.5	1.8	212.
8.5	1295.	2880.	0.9	1.7	1.9	209.
9.0	1372.	2957.	0.1	2.7	2.7	182.
9.5	1448.	3033.	0.3	3.7	3.8	184.
10.0	1524.	3109.	0.2	4.2	4.2	182.
10.5	1600.	3185.	0.2	4.4	4.4	183.
11.0	1676.	3261.	1.0	4.2	4.4	193.
11.5	1753.	3338.	1.6	4.2	4.5	201.
12.0	1829.	3414.	2.2	4.1	4.7	208.
12.5	1905.	3490.	2.2	2.5	3.3	221.

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3347

DATE 10/01/76 TIME 13:10MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		25.00		0.0		1.5	330.
1.0	150	1735	25.51	0.51	1.01	3.94	3.0	296.
2.0	300	1885	24.58	-0.93	-2.54	0.39	1.8	323.
2.7	415.	2000.	23.53	-0.70	-3.59	-0.66	1.3	205.
3.3	500	2085	22.84	-1.04	-2.23	-0.70	1.0	165.
6.0	915.	2500.	22.92	0.08	-3.62	-0.69	M	M
8.3	1415.	3000.	17.65	-5.28	-4.74	-1.82	M	M
14.6	2415.	4000.	13.38	-4.27	-0.72	-2.21		
20.4	3415.	5000.	6.25	-7.13	-3.51	-0.58		
26.5	4415.	6000.	1.69	-4.55	-2.82	0.10		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3347

DATE 10/01/76 TIME 13:10MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	0.8	-1.3	1.5	330.
0.5	76.	1661.	2.3	-0.6	2.3	284.
1.0	152.	1737.	2.7	-1.3	3.0	296.
1.5	229.	1814.	2.7	-1.8	3.2	305.
2.0	305.	1890.	1.0	-1.3	1.7	324.
2.5	382.	1967.	0.1	-1.4	1.4	357.
3.0	458.	2043.	-0.1	-1.1	1.1	8.
3.5	542.	2127.	0.5	-0.6	0.8	321.
4.0	618.	2203.	1.7	-0.9	1.9	299.
4.5	694.	2279.	3.4	1.2	3.6	251.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 0
 DATE 10/03/76 TIME 07:12MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		1.81		0.0		0.0	0.
0.8	* 114	1699	4.18		3.34	6.27		
1.0	150	1735	4.18	2.36	0.56	3.48	M	M
2.0	300	1885	3.71	-0.47	-2.23	0.70	M	M
2.7	415.	2000.	2.86	-0.85	-2.42	0.51	M	M
3.3	500	2085.	1.84	-1.02	-3.18	-0.25	M	M
5.9	915.	2500.	-2.10	-3.94	-3.41	-0.48	M	M

UTAH UAUB ELEV 1585 METERS SOUNDING ID 0
 DATE 10/03/76 TIME 07:12MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	0.0	0.0	0.0	0.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3332
 DATE 10/03/76 TIME 13:58MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		19.05		0.0		3.1	90.
1.0	150	1735	18.34	-0.71	-2.28	0.64	11.9	294.
2.0	300	1885	16.82	-1.52	-1.94	0.98	17.7	297.
2.7	415.	2000.	16.73	-0.19	0.35	3.28	9.6	286.
3.3	500	2085	16.73	0.10	-0.18	2.75	7.2	283.
3.4	915.	2500.	13.01	-3.70	-2.52	0.41	6.4	289.
8.4	1415.	3000.	10.07	-2.95	-3.27	-0.34	5.5	296.
14.9	2415.	4000.	2.93	-7.15	-1.31	1.62		
20.7	3415.	5000.	-4.28	-7.21	-0.77	2.16		
25.8	4415.	6000.	-12.25	-7.96	-3.71	-0.78		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3332
 DATE 10/03/76 TIME 13:58MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	-3.1	-0.0	3.1	90.
0.5	76.	1661.	7.7	-1.8	7.9	283.
1.0	152.	1737.	11.0	-4.9	12.0	294.
1.5	229.	1814.	14.2	-5.3	15.2	291.
2.0	305.	1890.	16.0	-8.1	17.9	297.
2.5	381.	1966.	8.1	-2.8	8.6	289.
3.0	457.	2042.	10.6	-2.5	10.9	283.
3.5	533.	2118.	4.2	-1.0	4.3	283.
4.0	610.	2195.	5.4	-1.7	5.7	288.
4.5	704.	2289.	7.0	-2.3	7.4	288.
5.0	824.	2409.	5.9	-2.7	6.5	294.
5.5	938.	2523.	6.1	-1.9	6.3	288.
6.0	1014.	2599.	8.0	-1.4	6.1	283.
6.5	1090.	2675.	8.6	-1.1	2.8	293.
7.0	1166.	2751.	4.4	-0.5	4.5	277.
7.5	1243.	2828.	4.1	-0.9	4.2	282.
8.0	1327.	2912.	4.1	-0.8	4.2	281.
8.5	1435.	3020.	5.1	-2.9	5.8	299.
9.0	1516.	3101.	4.7	-1.7	5.0	250.
9.5	1592.	3177.	1.7	0.7	1.8	247.
10.0	1668.	3253.	1.8	1.8	3.5	226.
10.5	1744.	3329.	3.6	1.3	3.8	250.
11.0	1820.	3405.	3.6	2.4	3.8	213.
11.5	1897.	3482.	3.3	1.4	3.6	247.
12.0	1973.	3558.	3.8	1.1	4.3	241.
12.5	2049.	3634.	4.9	3.0	5.7	239.
13.0	2125.	3710.	4.2	3.5	5.5	230.

UTAH UAUR

ELEV 1585 METERS

SOUNDING ID 3335

DATE 10/05/76 TIME 06:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	*S M/S	*D DEG
	SFC		1.12		0.0		0.3	270.
0.5	* 76	1661	1.02		6.93	9.85		
1.0	150	1735	4.60	5.48	9.71	12.64	4.5	110.
1.5	* 228	1813	5.96		2.04	4.97		
2.0	300	1885	5.68	1.08	-1.30	1.63	4.2	90.
2.7	415.	2000.	4.83	-0.57	-1.67	1.26	4.2	72.
3.3	500	2085.	4.46	-0.65	-1.68	1.25	3.6	75.
6.0	915.	2500.	2.27	-1.91	-1.31	1.61	3.0	33.
9.2	1415.	3000.	-0.51	-3.15	-1.51	1.41	5.9	337.
15.7	2415.	4000.	-6.53	-5.92	0.19	3.12		
22.2	3415.	5000.	-10.07	-3.54	-1.17	1.76		
28.4	4415.	6000.	-18.85	-8.78	-2.77	0.16		

UTAH UAUR

ELEV 1585 METERS

SOUNDING ID 3335

DATE 10/05/76 TIME 06:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	0.3	0.0	0.3	270.
0.5	76.	1661.	-4.0	2.4	4.6	121.
1.0	152.	1737.	-4.2	1.5	4.5	110.
1.5	229.	1814.	-4.2	0.5	4.2	97.
2.0	305.	1890.	-4.2	-0.1	4.2	89.
2.5	381.	1966.	-4.3	-1.7	4.6	68.
3.0	457.	2042.	-3.6	-0.7	3.7	78.
3.5	533.	2118.	-3.4	-1.1	3.6	72.
4.0	610.	2195.	-3.5	-2.3	4.3	57.
4.5	686.	2271.	-3.4	-2.3	4.1	56.
5.0	762.	2347.	-3.1	-2.8	4.2	47.
5.5	838.	2423.	-2.0	-3.1	3.7	33.
6.0	914.	2499.	-1.7	-2.5	3.0	34.
6.5	991.	2575.	-0.5	-1.7	1.7	15.
7.0	1067.	2652.	-2.2	-0.9	2.4	69.
7.5	1148.	2733.	0.3	-3.7	3.7	355.
8.0	1231.	2816.	0.4	-5.0	5.1	5.
8.5	1308.	2893.	0.4	-5.0	5.0	355.
9.0	1384.	2969.	2.1	-6.0	6.3	341.
9.5	1460.	3045.	2.4	-4.6	5.2	332.
10.0	1536.	3121.	2.9	-2.6	3.9	311.
10.5	1612.	3197.	3.1	-3.0	4.3	314.
11.0	1689.	3274.	4.1	-3.1	5.1	307.
11.5	1768.	3353.	5.0	-2.9	5.8	300.
12.0	1848.	3433.	6.0	-5.2	8.0	311.



UTAH UAUB ELEV 1585 METERS SOUNDING ID 3330
 DATE 10/05/76 TIME 13:05MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		18.43		0.0		M	M
0.8	150	1735	15.92	-2.50	-3.19	-0.27	4.3	230.
1.7	300	1885	15.20	-0.73	-2.32	0.61	1.4	234.
2.4	415.	2000.	14.10	-1.07	-2.32	0.61	1.2	257.
3.0	500.	2085.	14.10	-0.02	-1.97	0.95	1.4	283.
5.7	915.	2500.	11.45	-2.65	-0.91	2.02	4.1	189.
8.8	1415.	3000.	9.23	-2.22	0.37	3.29	9.8	237.
15.0	2415.	4000.	5.11	-4.12	-2.40	0.52		
20.5	3415.	5000.	0.64	-4.47	-4.51	-1.58		
26.3	4415.	6000.	-6.52	-7.16	-4.24	-1.31		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3330
 DATE 10/05/76 TIME 13:05MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	1661.	2.7	2.3	3.5	230.
1.0	195.	1780.	3.7	3.0	4.7	230.
1.5	274.	1859.	1.4	1.1	1.8	232.
2.0	350.	1935.	0.7	0.4	0.8	237.
2.5	426.	2011.	1.3	0.2	1.3	260.
3.0	502.	2087.	1.3	0.3	1.4	285.
3.5	579.	2164.	1.8	0.5	1.8	256.
4.0	655.	2240.	1.1	1.2	1.7	221.
4.5	731.	2316.	0.9	1.1	1.4	220.
5.0	807.	2392.	0.2	2.5	2.5	175.
5.5	883.	2468.	0.1	2.7	2.7	178.
6.0	960.	2545.	2.6	5.4	6.0	206.
6.5	1036.	2621.	3.7	7.2	8.1	207.
7.0	1113.	2718.	1.3	9.1	9.2	188.
7.5	1210.	2795.	3.6	6.6	7.5	209.
8.0	1286.	2871.	7.4	3.9	8.4	242.
8.5	1363.	2948.	6.3	5.0	8.1	232.
9.0	1439.	3024.	9.2	5.4	10.6	240.
9.5	1515.	3100.	9.8	4.9	10.9	244.
10.0	1591.	3176.	10.7	4.7	11.6	246.
10.5	1667.	3252.	9.7	3.6	10.4	250.
11.0	1744.	3329.	9.2	3.2	9.7	251.
11.5	1820.	3405.	9.3	3.0	9.8	252.
12.0	1896.	3481.	7.8	1.0	7.9	265.

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3331

DATE 10/07/76 TIME 07:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		0.83		0.0		1.3	150.
1.0	150	1735	2.26	1.43	0.0	2.93	0.8	100.
2.0	300	1885	1.60	-0.66	-1.50	1.42	2.7	68.
2.7	415.	2000.	0.74	-0.58	-0.94	1.99	5.4	58.
3.3	500	2085.	0.83	-0.19	0.0	2.93	6.1	48.
6.0	915.	2500.	-0.90	-1.71	-2.46	0.46	6.3	45.
8.9	1415.	3000.	-5.26	-4.38	-3.27	-0.34	10.2	10.
15.4	2415.	4000.	-7.41	-2.15	-0.39	2.54		
17.3	*2704	4289.	-7.90		5.39	8.32		
18.0	*2818	4403	-4.48		5.19	8.12		
21.9	3415.	5000.	-8.88	-1.48	-1.74	1.19		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3331

DATE 10/07/76 TIME 07:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-0.6	1.1	1.3	150.
0.5	76.	1661.	-0.1	0.0	0.1	113.
1.0	152.	1737.	-0.8	0.1	0.8	100.
1.5	229.	1814.	-1.8	-0.2	1.8	84.
2.0	305.	1890.	-2.6	-1.1	2.8	67.
2.5	381.	1966.	-4.5	-3.0	5.4	57.
3.0	457.	2042.	-4.7	-2.8	5.5	59.
3.5	533.	2118.	-4.2	-5.1	6.6	39.
4.0	610.	2195.	-3.6	-5.5	6.6	33.
4.5	686.	2271.	-4.0	-5.1	6.4	38.
5.0	762.	2347.	-4.1	-4.6	6.2	42.
5.5	838.	2423.	-3.5	-4.3	5.6	39.
6.0	914.	2499.	-4.4	-4.5	6.3	45.
6.5	991.	2576.	-4.4	-4.8	6.5	42.
7.0	1067.	2652.	-5.1	-6.3	8.1	39.
7.5	1161.	2746.	-5.5	-7.4	9.2	36.
8.0	1270.	2855.	-5.0	-9.2	10.5	28.
8.5	1351.	2936.	-2.4	-9.0	9.3	15.
9.0	1428.	3013.	-1.7	-10.3	10.4	9.
9.5	1507.	3092.	-0.7	-11.1	11.1	3.
10.0	1587.	3172.	0.4	-11.4	11.4	358.
10.5	1663.	3248.	2.1	-10.8	11.0	349.
11.0	1739.	3324.	2.6	-11.0	11.3	347.
11.5	1828.	3413.	3.1	-12.2	12.6	346.
12.0	1904.	3489.	4.1	-9.8	10.7	337.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3339
 DATE 10/07/76 TIME 13:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.28		0.0		2.1	330.
0.8	150	1735	9.82	-2.46	-5.27	-2.34	0.9	291.
1.4	300	1885	9.23	-0.59	-3.11	-0.18	0.6	340.
2.0	415.	2000.	6.80	-1.79	-4.80	-1.87	0.8	325.
2.4	500	2085.	6.84	-0.61	-4.80	-1.87	1.5	329.
2.5	915.	2500.	4.45	-2.39	-0.19	2.74	1.3	321.
7.2	1415.	?3000.	1.31	-3.14	-0.38	2.55	1.6	18.
13.7	2415.	4000.	2.27	0.95	0.0	2.93		
20.3	3415.	5000.	-1.47	-3.74	-1.33	1.60		
26.6	4415.	6000.	-3.12	-1.65	-0.19	2.74		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3339
 DATE 10/07/76 TIME 13:22MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	1.0	-1.8	2.1	330.
0.5	76.	1661.	0.6	-0.1	0.6	262.
1.0	212.	1797.	0.8	-0.8	1.1	315.
1.5	323.	1908.	0.1	-0.4	0.4	347.
2.0	409.	1994.	0.4	-0.6	0.7	325.
2.5	531.	2116.	0.8	-1.5	1.7	331.
3.0	653.	2238.	0.3	-1.9	1.9	352.
3.5	768.	2353.	0.6	-1.6	1.7	338.
4.0	845.	2430.	0.9	-1.2	1.5	323.
4.5	921.	2506.	0.8	-1.0	1.2	321.
5.0	997.	2582.	0.7	-0.5	0.8	309.
5.5	1097.	2682.	0.9	-0.5	1.0	294.
6.0	1225.	2810.	0.9	-0.6	1.1	304.
6.5	1311.	2896.	0.2	-0.1	0.2	285.
7.0	1387.	2972.	-0.2	-1.2	1.2	11.
7.5	1463.	3048.	-1.1	-1.9	2.2	31.
8.0	1540.	3125.	-1.7	-1.5	2.2	49.
8.5	1616.	3201.	-2.7	-1.9	3.3	55.
9.0	1692.	3277.	-3.8	-2.1	4.4	61.
9.5	1768.	3353.	-3.2	-3.8	5.0	41.
10.0	1844.	3429.	-2.0	-5.5	5.9	20.
10.5	1921.	3506.	-1.5	-6.1	6.3	14.
11.0	1997.	3582.	-0.5	-7.5	7.5	4.
11.5	2073.	3658.	-0.2	-9.5	9.5	1.
12.0	2149.	3734.	-0.4	-11.6	11.6	2.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3335
 DATE 10/09/76 TIME 06:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-0.61		0.0		1.5	330.
1.0	150	1735	3.29	3.89	7.67	10.60	1.3	120.
1.8	* 266	1851	6.52		3.90	6.82		
2.0	? 300	1885	6.43	3.14	3.15	6.08	1.8	84.
2.7	415.	? 2000.	6.34	-0.09	-0.37	2.56	1.0	96.
3.3	? 500	? 2085.	6.25	-0.09	-0.18	2.74	0.5	116.
3.8	915.	? 2500.	5.96	-0.29	-0.19	2.74	2.9	225.
4.3	1415.	? 3000.	5.49	-0.47	-0.19	2.74	0.7	174.
5.8	2415.	4000.	2.93	-2.56	-2.25	0.68		
6.3	3415.	5000.	4.87	-7.80	-2.88	0.05		
6.4	4415.	6000.	-11.75	-6.89	-3.12	-0.20		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3335
 DATE 10/09/76 TIME 06:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	0.8	-1.3	1.5	330.
0.5	76.	1661.	-1.4	1.5	2.1	138.
1.0	152.	1737.	-1.1	0.6	1.3	120.
1.5	229.	1814.	-0.4	0.1	0.4	98.
2.0	305.	1890.	-1.9	-0.2	1.9	83.
2.5	381.	1966.	-1.1	0.1	1.1	97.
3.0	457.	2042.	-0.7	0.1	0.7	95.
3.5	533.	2118.	-0.2	0.2	0.3	133.
4.0	610.	2195.	-0.1	0.6	0.7	175.
4.5	686.	2271.	0.7	2.4	2.5	196.
5.0	762.	2347.	2.3	1.2	2.6	244.
5.5	838.	2423.	1.4	1.1	1.8	230.
6.0	914.	2499.	2.0	2.1	2.9	225.
6.5	991.	2576.	2.6	2.6	3.6	225.
7.0	1067.	2652.	3.2	1.2	3.4	250.
7.5	1143.	2728.	2.1	1.2	2.4	240.
8.0	1219.	2804.	-0.2	0.7	0.7	161.
8.5	1295.	2880.	0.2	0.8	0.8	195.
9.0	1372.	2957.	0.3	0.9	1.0	196.
9.5	1448.	3033.	-0.2	0.4	0.5	158.
10.0	1524.	3109.	0.5	1.1	1.3	210.
10.5	1600.	3185.	3.2	0.3	3.2	264.
11.0	1676.	3261.	1.7	0.1	1.7	260.
11.5	1753.	3338.	4.1	0.5	4.2	263.
12.0	1829.	3414.	4.2	0.3	4.2	274.



UTAH UAUB ELEV 1585 METERS SOUNDING ID 3343
 DATE 10/09/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		22.40		0.0		1.5	270.
1.0	150	1735	21.97	-0.43	-2.77	0.16	1.7	331.
1.7	300	1885	19.72	-2.25	-2.09	0.84	2.8	317.
2.3	415.	2000.	19.14	-0.58	-1.40	1.53	2.4	296.
2.8	500	2085	18.64	-0.50	-1.23	1.70	2.1	298.
3.5	615.	2500.	19.05	-0.65	-0.18	2.75	3.5	218.
4.6	1415.	3000.	16.10	-3.08	-3.71	-0.78	7.3	224.
15.0	2415.	4000.	12.37	-3.84	-1.44	1.49		
21.2	3415.	5000.	5.58	-6.79	-1.48	1.44		
27.6	4415.	6000.	-0.70	-6.28	-1.89	1.03		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3343
 DATE 10/09/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	1.5	0.0	1.5	270.
0.5	76.	1661.	0.5	-1.4	1.5	339.
1.0	152.	1737.	0.8	-1.4	1.7	331.
1.5	265.	1850.	1.7	-2.2	2.8	323.
2.0	376.	1961.	2.3	-1.5	2.7	304.
2.5	452.	2037.	2.0	-0.7	2.1	289.
3.0	528.	2113.	1.7	-1.1	2.1	304.
3.5	604.	2189.	0.7	0.0	0.7	268.
4.0	680.	2265.	2.2	0.5	2.3	256.
4.5	757.	2342.	1.8	3.0	3.5	211.
5.0	833.	2418.	2.7	2.7	3.8	225.
5.5	909.	2494.	2.0	2.7	3.4	217.
6.0	985.	2570.	3.3	2.8	4.3	230.
6.5	1061.	2646.	3.9	3.5	5.2	228.
7.0	1138.	2723.	3.8	3.7	5.3	225.
7.5	1214.	2799.	3.4	4.4	5.6	218.
8.0	1290.	2875.	3.4	4.4	5.6	217.
8.5	1391.	2976.	5.0	5.6	7.5	221.
9.0	1476.	3061.	5.0	4.4	6.7	224.
9.5	1561.	3146.	3.5	3.1	4.7	224.
10.0	1637.	3222.	6.7	5.2	8.4	232.
10.5	1714.	3299.	5.2	2.8	5.9	242.
11.0	1790.	3375.	5.1	2.7	5.8	242.
11.5	1866.	3451.	4.7	1.8	5.0	249.
12.0	1943.	3528.	3.4	1.1	3.5	253.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3342
 DATE 10/11/76 TIME 06:25MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		5.21		0.0		1.3	180.
1.0	150	1735	10.42	5.22	8.04	10.97	2.0	166.
1.5	* 228	1813	11.45		2.36	5.29		
2.0	300	1885	11.63	1.21	1.63	4.56	4.2	182.
2.7	415.	2000.	12.09	0.64	0.36	2.57	7.0	195.
3.3	500	2085.	12.09	-0.19	-0.90	2.02	7.2	208.
6.0	915.	2500.	8.86	-2.84	-2.38	0.55	5.8	232.
9.3	1415.	3000.	5.30	-3.94	-2.41	0.52	5.3	251.
15.8	2415.	4000.	-2.15	-7.46	-2.28	0.65		
22.4	3415.	5000.	-9.47	-7.33	-2.33	0.60		
28.6	4415.	6000.	-18.45	-8.98	-3.37	-0.44		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3342
 DATE 10/11/76 TIME 06:25MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-0.0	1.3	1.3	180.
0.5	76.	1661.	-1.2	0.2	1.2	99.
1.0	152.	1737.	-0.4	2.0	2.1	168.
1.5	229.	1814.	0.2	3.6	3.6	176.
2.0	305.	1890.	0.2	4.2	4.2	183.
2.5	381.	1966.	1.1	6.3	6.4	190.
3.0	457.	2042.	2.7	7.2	7.6	201.
3.5	533.	2118.	3.7	5.8	6.9	213.
4.0	610.	2195.	3.9	4.9	6.2	219.
4.5	686.	2271.	4.2	5.3	6.7	218.
5.0	762.	2347.	4.0	4.1	5.7	224.
5.5	838.	2423.	4.1	4.1	5.7	225.
6.0	914.	2499.	4.5	3.6	5.8	232.
6.5	992.	2577.	5.4	4.1	6.8	233.
7.0	1068.	2653.	6.6	4.5	8.0	236.
7.5	1144.	2729.	6.3	3.9	7.4	238.
8.0	1221.	2806.	5.3	3.5	6.3	237.
8.5	1298.	2883.	4.8	2.1	5.2	247.
9.0	1375.	2960.	5.1	1.5	5.3	254.
9.5	1451.	3036.	5.0	1.9	5.3	249.
10.0	1527.	3112.	4.6	1.5	4.9	253.
10.5	1603.	3188.	5.0	1.6	5.3	253.
11.0	1679.	3264.	5.5	1.7	5.7	253.
11.5	1756.	3341.	5.1	2.7	5.8	242.
12.0	1832.	3417.	4.0	2.3	4.7	240.

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3341

DATE 10/11/76 TIME 12:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		22.75		0.0		1.5	300.
0.9	150	1735	20.95	-1.80	-3.80	-0.88	2.1	304.
1.8	300	1885	19.35	-1.60	-2.27	-0.66	2.0	303.
2.5	415.	2000.	18.34	-0.78	-3.60	-0.76	1.6	300.
3.0	500	2085	17.60	-0.96	-5.12	-2.19	1.1	294.
5.4	915.	2500.	16.82	-0.79	-1.60	1.33	5.6	236.
8.7	1415.	3000.	14.56	-2.16	-1.61	1.32	6.4	204.
15.1	2415.	4000.	9.42	-5.23	-0.37	2.56		
21.6	3415.	5000.	1.89	-7.52	-4.69	-1.76		
27.0	4415.	6000.	-5.45	-7.35	-2.11	0.81		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3341

DATE 10/11/76 TIME 12:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	1.3	-0.8	1.5	300.
0.5	76.	1661.	1.1	-1.5	1.9	323.
1.0	160.	1745.	1.8	-1.1	2.1	301.
1.5	257.	1842.	1.9	-1.1	2.2	301.
2.0	335.	1920.	1.4	-1.0	1.8	305.
2.5	411.	1996.	1.4	-0.8	1.6	300.
3.0	498.	2083.	1.0	-0.5	1.1	296.
3.5	592.	2177.	0.6	0.9	1.1	213.
4.0	695.	2280.	2.5	1.6	2.9	238.
4.5	772.	2357.	3.6	2.7	4.5	234.
5.0	848.	2433.	3.9	2.8	4.8	235.
5.5	924.	2509.	4.8	3.2	5.8	236.
6.0	1000.	2585.	4.2	4.5	6.2	223.
6.5	1077.	2662.	3.4	4.2	5.4	220.
7.0	1153.	2738.	2.8	4.6	5.4	212.
7.5	1229.	2814.	2.6	4.8	5.5	208.
8.0	1305.	2890.	2.6	5.2	5.8	206.
8.5	1381.	2966.	2.7	5.5	6.1	206.
9.0	1458.	3043.	2.4	6.3	6.7	201.
9.5	1534.	3119.	3.9	4.9	6.3	218.
10.0	1610.	3195.	3.9	6.0	7.1	213.
10.5	1694.	3279.	4.5	6.8	8.1	214.
11.0	1771.	3356.	3.9	6.3	7.4	211.
11.5	1847.	3432.	4.0	6.9	8.0	210.
12.0	1923.	3508.	4.5	7.1	8.5	212.



UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3344

DATE 10/13/76

TIME 06:35MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-0.99		0.0		2.3	150.
1.0	150	1735	4.21	5.20	9.56	12.49	3.4	157.
1.3	* 190	1775	4.73		8.42	11.35		
2.0	300	1885	5.57	1.37	1.67	4.60	2.6	218.
2.7	415.	2000.	5.87	0.29	2.04	4.96	1.6	239.
3.3	500	2085	6.60	0.74	1.85	4.78	1.5	176.
6.0	915.	2500.	6.80	0.58	-1.48	1.45	6.1	50.
9.3	1415.	3000.	4.07	-3.10	-1.68	1.25	4.8	32.
15.8	2415.	4000.	1.22	-2.87	-2.07	0.85		
22.2	3415.	5000.	-6.92	-8.14	-4.05	-1.13		
28.2	4415.	6000.	-14.84	-7.92	-2.16	0.77		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3344

DATE 10/13/76

TIME 06:35MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-1.2	2.0	2.3	150.
0.5	76.	1661.	-2.5	3.4	4.2	144.
1.0	152.	1737.	-1.3	3.1	3.4	157.
1.5	229.	1814.	0.6	2.3	2.3	195.
2.0	305.	1890.	1.6	2.0	2.6	219.
2.5	381.	1966.	1.6	1.4	2.1	228.
3.0	457.	2042.	0.8	0.2	0.8	254.
3.5	533.	2118.	-1.8	0.8	2.0	115.
4.0	610.	2195.	-3.8	0.2	3.8	93.
4.5	686.	2271.	-3.9	1.0	4.1	76.
5.0	762.	2347.	-2.0	2.1	2.9	44.
5.5	838.	2423.	-3.2	3.2	4.5	45.
6.0	914.	2499.	-4.7	3.9	6.1	50.
6.5	991.	2576.	-4.9	4.2	6.5	49.
7.0	1067.	2652.	-4.8	4.1	6.3	50.
7.5	1143.	2728.	-4.4	3.9	5.9	48.
8.0	1219.	2804.	-4.0	3.3	5.1	51.
8.5	1295.	2880.	-3.5	3.3	4.9	47.
9.0	1372.	2957.	-2.8	3.7	4.6	37.
9.5	1448.	3033.	-2.4	4.3	4.9	29.
10.0	1524.	3109.	-2.9	3.9	4.9	37.
10.5	1600.	3185.	-3.9	3.3	5.1	50.
11.0	1676.	3261.	-4.6	2.7	5.4	59.
11.5	1753.	3338.	-4.8	1.6	5.1	72.
12.0	1829.	3414.	-4.2	1.0	4.3	76.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3340
 DATE 10/13/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		21.88		0.0		2.1	330.
1.0	150	1735	21.08	-0.80	0.0	2.93	2.6	259.
2.0	300	1885	20.91	-0.16	-2.95	-0.03	2.5	275.
2.5	415.	2000.	18.61	-2.21	-4.03	-1.10	2.5	285.
2.9	500	2085	18.61	-0.10	-4.03	-1.10	2.6	293.
3.5	915.	2500.	16.64	-1.97	1.94	4.87	1.3	6.
8.7	1415.	3000.	15.74	-0.90	-2.84	0.08	4.0	197.
15.3	2415.	4000.	11.75	-3.99	-4.17	-1.24		
21.3	3415.	5000.	6.90	-4.85	-5.19	-2.27		
26.7	4415.	6000.	-0.90	-7.79	-2.84	0.09		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3340
 DATE 10/13/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.0	-1.8	2.1	330.
0.5	76.	1661.	1.9	0.7	2.1	249.
1.0	152.	1737.	3.6	0.7	3.7	259.
1.5	229.	1814.	4.0	0.3	4.0	265.
2.0	305.	1890.	2.4	-0.2	2.4	276.
2.5	405.	1990.	2.4	-0.6	2.4	284.
3.0	527.	2112.	2.4	-1.2	2.7	295.
3.5	616.	2201.	0.6	-2.1	2.2	344.
4.0	692.	2277.	-0.1	-3.2	2.2	2.
4.5	769.	2354.	-1.1	-3.2	3.4	19.
5.0	845.	2430.	-0.5	-2.2	2.2	14.
5.5	921.	2506.	-0.1	-1.2	1.2	5.
6.0	997.	2582.	1.6	-0.4	1.7	284.
6.5	1073.	2658.	1.9	0.2	1.9	265.
7.0	1150.	2735.	2.3	1.1	2.5	244.
7.5	1226.	2811.	2.0	2.5	3.2	19.
8.0	1302.	2887.	0.6	3.6	3.6	189.
8.5	1378.	2963.	0.7	3.8	3.9	190.
9.0	1454.	3039.	1.8	3.8	4.2	205.
9.5	1531.	3116.	2.5	4.2	4.9	211.
10.0	1607.	3192.	2.8	4.4	5.2	215.
10.5	1683.	3268.	2.8	4.1	4.9	224.
11.0	1759.	3344.	2.6	2.7	3.8	232.
11.5	1835.	3420.	2.2	0.7	2.3	252.
12.0	1912.	3497.	2.2	0.1	2.2	268.



UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3349

DATE 10/15/76

TIME 06:31MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-0.13		0.0		2.8	90.
0.3	* 38	1623	-0.13		0.0	0.0		
1.0	150	1735	-0.46	5.59	9.13	12.06	4.2	165.
1.5	* 228	1813	6.43		2.04	4.96		
2.0	300	1885	6.52	1.06	-0.37	2.56	1.0	183.
2.7	415.	2000.	8.11	0.28	5.68	8.81	1.3	117.
3.3	500	2085.	9.18	2.39	2.38	5.31	4.0	82.
6.0	915.	2500.	6.99	-1.90	-2.03	0.90	2.6	7.
9.3	1415.	3000.	5.39	-1.88	-1.30	1.63	4.5	322.
15.8	2415.	4000.	-1.37	-6.78	-2.66	0.27		
21.8	3415.	5000.	-8.89	-7.51	-2.13	0.79		
28.0	4415.	6000.	-17.04	-8.16	-3.95	-1.02		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3349

DATE 10/15/76

TIME 06:31MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-2.8	-0.0	2.8	90.
0.5	76.	1661.	-1.6	3.0	3.4	153.
1.0	152.	1737.	-1.0	4.1	4.2	166.
1.5	229.	1814.	-0.1	2.1	2.1	178.
2.0	305.	1890.	0.0	1.0	1.0	183.
2.5	381.	1966.	0.2	0.2	0.3	134.
3.0	457.	2042.	2.5	0.2	2.5	95.
3.5	533.	2118.	5.0	1.6	5.3	72.
4.0	610.	2195.	3.6	2.4	4.3	56.
4.5	686.	2271.	1.7	2.4	3.0	36.
5.0	762.	2347.	0.5	3.0	3.1	9.
5.5	838.	2423.	0.4	2.8	2.8	7.
6.0	914.	2499.	0.2	2.6	2.6	4.
6.5	991.	2576.	0.5	2.2	2.3	348.
7.0	1067.	2652.	0.7	1.6	1.8	336.
7.5	1143.	2728.	1.0	2.0	2.2	333.
8.0	1219.	2804.	0.7	2.8	2.9	346.
8.5	1295.	2880.	1.5	4.7	4.9	343.
9.0	1372.	2957.	2.9	4.1	5.0	325.
9.5	1448.	3033.	2.6	3.1	4.0	319.
10.0	1524.	3109.	1.7	2.6	3.1	327.
10.5	1600.	3185.	1.0	1.8	2.1	330.
11.0	1676.	3261.	0.6	1.5	1.6	337.
11.5	1753.	3338.	0.9	0.7	1.1	309.
12.0	1829.	3414.	2.6	0.1	2.6	273.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3352
 DATE 10/15/76 TIME 13:02MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		22.84		0.0		1.5	270.
0.9	? 150	1735	20.58	-2.25	-1.39	1.54	0.6	47.
1.8	? 300	1885	19.87	-0.72	-1.39	1.53	0.6	235.
2.6	? 415.	? 2000.	19.33	-0.54	-1.40	1.53	0.2	334.
3.1	? 500	2085	18.97	-0.36	-1.40	1.53	0.5	318.
5.9	915.	2500.	16.82	-2.14	-0.18	2.75	4.3	231.
8.8	1415.	3000.	13.92	-2.90	-3.04	-0.11	3.3	197.
14.9	2415.	4000.	7.65	-6.27	-3.68	-0.75		
21.0	3415.	5000.	1.02	-6.63	-2.63	0.29		
26.2	4415.	6000.	-5.16	-6.18	-1.92	1.01		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3352
 DATE 10/15/76 TIME 13:02MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	1.5	0.0	1.5	270.
0.5	76.	1661.	-0.4	-0.7	0.8	32.
1.0	175.	1760.	-0.4	-0.3	0.5	52.
1.5	251.	1836.	-0.6	-0.5	0.8	52.
2.0	327.	1912.	0.2	-0.4	0.4	338.
2.5	403.	1988.	0.1	-0.1	0.1	335.
3.0	480.	2065.	0.2	-0.3	0.4	328.
3.5	556.	2141.	0.9	-0.3	0.9	290.
4.0	632.	2217.	1.2	0.0	1.2	270.
4.5	708.	2293.	1.5	3.5	3.5	172.
5.0	784.	2369.	1.4	1.0	1.7	230.
5.5	861.	2446.	2.3	1.8	2.9	233.
6.0	937.	2522.	3.8	3.1	4.9	231.
6.5	1013.	2598.	3.5	2.6	4.4	233.
7.0	1089.	2674.	3.2	2.8	3.5	219.
7.5	1165.	2750.	3.4	1.1	3.3	220.
8.0	1265.	2850.	2.8	3.8	4.7	217.
8.5	1361.	2946.	0.0	6.6	2.2	209.
9.0	1443.	3028.	0.5	2.8	2.8	191.
9.5	1519.	3104.	1.9	1.7	2.5	228.
10.0	1596.	3181.	2.0	0.5	2.1	255.
10.5	1672.	3257.	2.5	0.4	2.5	274.
11.0	1748.	3333.	2.1	0.2	2.2	277.
11.5	1830.	3415.	3.0	0.5	3.1	261.
12.0	1906.	3491.	3.6	0.6	3.7	260.



UTAH DAUB ELEV 1585 METERS SOUNDING ID 3345
 DATE 10/17/76 TIME 06:33MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T SOUM	D/T LAPSE	WS M/S	WD DEG
	SFC		5.21		0.0		M	M
0.3	* 38	1623	4.92		0.0	0.0		
1.0	* 150	1735	10.41	5.21	7.13	10.06	2.0	64.
1.0	* 152	1737	10.44		7.13	10.06		
2.0	300	1885	11.18	0.76	-0.18	2.75	7.0	52.
2.7	415.	2000.	10.81	-0.37	-1.46	1.47	M	M
3.3	500	2085.	10.08	-0.72	-0.73	2.20	M	M
6.0	915.	2500.	7.74	-2.34	-2.94	-0.01	M	M
9.2	1415.	3000.	3.22	-4.52	-2.24	0.68	M	M
15.7	2415.	4000.	-5.35	-8.57	-3.65	-0.72		
22.1	3415.	5000.	-13.24	-7.89	-2.35	0.58		
27.6	4415.	6000.	-22.29	-9.05	-3.99	-1.06		

UTAH DAUB ELEV 1585 METERS SOUNDING ID 3345
 DATE 10/17/76 TIME 06:33MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
THE WIND DATA ARE MISSING						
0.5	76.	1661.	-0.7	-0.2	0.7	71.
1.0	152.	1737.	-1.8	-0.9	2.1	64.
1.5	229.	1814.	-2.6	-2.2	3.4	50.
2.0	305.	1890.	-5.7	-4.5	7.2	52.
2.5	381.	1966.	-14.1	-11.6	18.2	51.



UTAH UAU8

ELEV 1585 METERS

SOUNDING ID 3343

DATE 10/17/76 TIME 13:07MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		23.52		0.0		10.3	270.
0.9	150.	1735.	21.45	-2.17	-2.07	0.86	10.3	239.
1.9	300.	1885.	21.09	-0.36	-2.08	0.85	18.7	239.
2.6	415.	2000.	19.76	-1.48	-2.27	0.66	12.9	240.
3.2	500.	2085.	19.24	-0.36	-3.33	-0.40	13.4	239.
3.8	915.	2500.	16.55	-2.67	-1.24	1.69	15.4	233.
8.7	1415.	3000.	11.91	-4.02	-3.07	-0.14	12.9	231.
14.2	2415.	4000.	3.03	-9.53	-3.56	-0.63		
19.5	3415.	5000.	-7.38	-10.41	-7.53	-4.60		
23.7	4415.	6000.	-14.74	-7.36	-0.59	2.34		

UTAH UAU8

ELEV 1585 METERS

SOUNDING ID 3343

DATE 10/17/76 TIME 13:07MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	10.3	0.0	10.3	270.
0.5	76.	1661.	6.3	2.3	6.7	250.
1.0	169.	1754.	9.4	6.3	11.3	236.
1.5	245.	1830.	11.3	6.5	13.1	240.
2.0	321.	1906.	17.7	10.9	20.8	238.
2.5	397.	1982.	11.1	6.4	12.8	240.
3.0	474.	2059.	11.2	6.7	13.1	239.
3.5	550.	2135.	12.1	7.3	14.1	239.
4.0	630.	2215.	17.0	9.5	19.5	241.
4.5	706.	2291.	15.0	8.2	17.1	241.
5.0	783.	2368.	13.8	6.5	15.3	245.
5.5	861.	2446.	11.5	8.7	14.5	233.
6.0	946.	2531.	13.9	10.6	17.5	233.
6.5	1029.	2614.	13.8	10.6	17.4	233.
7.0	1112.	2697.	12.3	9.7	15.7	232.
7.5	1188.	2773.	11.1	9.2	14.4	230.
8.0	1267.	2852.	9.3	8.4	12.5	228.
8.5	1368.	2953.	10.7	8.5	13.6	232.
9.0	1475.	3060.	9.2	7.6	11.9	230.
9.5	1562.	3147.	3.6	4.0	5.4	222.
10.0	1662.	3247.	11.6	8.4	14.3	234.
10.5	1782.	3367.	12.3	8.3	14.9	236.
11.0	1882.	3467.	9.1	6.2	11.0	236.
11.5	1967.	3552.	13.2	10.2	16.7	232.
12.0	2043.	3628.	16.0	9.4	18.6	240.



UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3347

DATE 10/19/76 TIME 06:38MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-11.46		0.0		3.1	150.
1.0	150	1735	-6.33	5.12	7.72	10.64	0.3	118.
2.0	300	1885	-4.19	2.14	4.21	7.14	1.9	199.
2.7	415.	2000.	-2.44	1.75	0.76	3.69	2.8	239.
3.3	500	2085	-2.45	-0.01	-0.19	2.74	2.3	239.
6.0	915.	2500.	-3.70	-0.95	-1.72	1.21	2.0	201.
9.3	1415.	3000.	-7.12	-3.71	-0.39	2.54	2.3	174.
15.8	2415.	4000.	-7.02	0.10	-0.39	2.54		
22.2	3415.	5000.	-13.64	-6.63	0.0	2.93		
28.1	4415.	6000.	-21.89	-8.24	-2.99	-0.06		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3347

DATE 10/19/76 TIME 06:38MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	-1.5	2.7	3.1	150.
0.5	76.	1661.	-1.3	2.7	3.0	154.
1.0	152.	1737.	-0.2	0.1	0.2	117.
1.5	229.	1814.	0.1	1.0	1.0	186.
2.0	305.	1890.	0.7	1.8	1.9	200.
2.5	381.	1966.	2.2	1.8	2.8	230.
3.0	457.	2042.	2.6	1.0	2.8	250.
3.5	533.	2118.	1.5	1.2	1.9	231.
4.0	610.	2195.	1.8	0.9	2.0	245.
4.5	686.	2271.	1.6	2.2	2.7	215.
5.0	762.	2347.	1.3	1.9	2.2	214.
5.5	838.	2423.	0.8	2.0	2.2	202.
6.0	914.	2499.	0.7	1.9	2.0	201.
6.5	991.	2576.	1.0	2.0	2.3	207.
7.0	1067.	2652.	1.0	2.9	3.1	199.
7.5	1143.	2728.	1.0	2.9	3.1	199.
8.0	1219.	2804.	1.1	2.5	2.7	203.
8.5	1297.	2882.	1.0	2.7	2.9	201.
9.0	1373.	2958.	0.0	2.3	2.3	181.
9.5	1450.	3035.	-0.5	2.2	2.3	167.
10.0	1526.	3111.	-0.3	0.1	0.3	246.
10.5	1602.	3187.	1.7	0.0	1.7	269.
11.0	1678.	3263.	2.3	-0.4	2.3	281.
11.5	1754.	3339.	4.0	-2.7	4.8	303.
12.0	1831.	3416.	5.3	-3.6	6.4	304.



UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3347

DATE 10/19/76

TIME 13:01MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.37		0.0		2.6	270.
0.9	150	1735	10.67	-1.70	-2.54	0.39	1.2	281.
1.9	300	1885	10.34	-0.32	-0.18	2.75	1.1	295.
2.6	415	2000.	10.25	-0.09	0.0	2.93	0.7	296.
3.2	500	2085	10.25	0.0	-1.09	1.83	0.3	284.
5.9	915	2500.	9.14	-1.11	-1.65	1.28	0.6	206.
8.9	1415	3000.	5.77	-3.37	-1.11	1.81	0.9	218.
15.4	2415	4000.	3.69	-2.08	-0.19	2.74		
21.4	3415	5000.	-4.17	-7.86	-6.49	-3.57		
26.4	4415	6000.	-12.84	-8.67	-2.54	0.38		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3347

DATE 10/19/76

TIME 13:01MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	2.6	0.0	2.6	270.
0.5	76.	1661.	1.4	0.1	1.4	268.
1.0	166.	1751.	1.2	-0.3	1.2	283.
1.5	242.	1827.	0.8	-1.1	1.4	323.
2.0	318.	1903.	0.9	-0.3	1.0	280.
2.5	395.	1980.	0.8	-0.3	0.9	288.
3.0	471.	2056.	0.1	-0.1	0.1	317.
3.5	547.	2132.	0.5	0.4	0.6	231.
4.0	623.	2208.	0.1	0.7	0.7	188.
4.5	699.	2284.	1.5	1.7	2.3	222.
5.0	776.	2361.	2.1	2.9	3.6	216.
5.5	852.	2437.	2.2	4.4	4.9	200.
6.0	928.	2513.	2.5	5.1	5.7	206.
6.5	1004.	2589.	2.4	5.2	5.7	205.
7.0	1087.	2672.	2.3	5.4	5.9	205.
7.5	1185.	2770.	2.2	6.1	6.5	200.
8.0	1281.	2866.	2.3	5.8	6.2	201.
8.5	1358.	2943.	1.6	5.4	5.6	196.
9.0	1434.	3019.	4.3	4.2	6.0	220.
9.5	1510.	3095.	4.1	4.1	5.9	225.
10.0	1586.	3171.	5.2	4.5	6.9	229.
10.5	1662.	3247.	6.5	0.0	7.1	245.
11.0	1739.	3324.	7.4	-0.3	7.4	267.
11.5	1815.	3400.	8.9	-0.1	8.9	271.
12.0	1891.	3476.	9.1	1.0	9.1	264.



UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3328

DATE 10/21/76 TIME 06:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC	1735	-6.92		0.0		2.6	90.
1.0	150	1885	-2.54	4.38	6.84	9.77	0.8	298.
2.0	300	2000.	-2.73	5.27	7.14	10.07	1.8	336.
2.7	415.	2085.	3.88	1.34	1.86	4.79	2.2	355.
3.3	500	2500.	4.42	0.35	1.12	4.05	1.3	327.
6.0	915.	3000.	5.11	0.69	-10.00	-7.38	3.3	204.
7.3	1415.	4000.	-0.61	-5.72	-1.89	-1.03	7.4	205.
13.4	2415.		-6.82	-6.21	-3.47	-0.54		
19.4	3415.	5000.	-14.64	-7.82	-0.79	2.14		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3328

DATE 10/21/76 TIME 06:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	-2.6	-0.0	2.6	90.
0.5	76.	1661.	0.6	-0.8	1.0	325.
1.0	152.	1737.	0.7	-0.3	0.8	297.
1.5	229.	1814.	1.6	-1.0	1.9	301.
2.0	305.	1890.	0.7	-1.6	1.7	338.
2.5	381.	1966.	0.1	-2.3	2.3	357.
3.0	457.	2042.	0.2	-0.0	2.0	353.
3.5	533.	2118.	0.6	-0.4	0.7	307.
4.0	610.	2195.	1.5	0.8	1.7	244.
4.5	686.	2271.	2.2	1.2	2.5	241.
5.0	762.	2347.	2.3	1.5	2.7	236.
5.5	838.	2423.	1.7	2.0	2.7	221.
6.0	914.	2499.	1.4	3.0	3.3	204.
6.5	991.	2576.	0.9	4.2	4.3	191.
7.0	1245.	2830.	3.3	5.8	6.7	210.
7.5	1499.	3084.	3.0	7.2	7.8	203.
8.0	1575.	3160.	0.6	5.7	5.7	186.
8.5	1651.	3236.	1.0	5.2	5.3	191.
9.0	1727.	3312.	1.1	4.3	5.4	192.
9.5	1803.	3388.	1.2	4.1	4.3	196.
10.0	1891.	3476.	1.5	3.2	3.6	205.
10.5	1970.	3555.	2.0	2.0	2.8	225.
11.0	2046.	3631.	2.3	1.1	2.5	244.
11.5	2122.	3707.	2.1	1.2	2.4	241.
12.0	2198.	3783.	1.9	1.8	2.7	227.



UTAH UAUB ELEV 1585 METERS SOUNDING ID 3350
 DATE 10/21/76 TIME 13:03MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		15.74		0.0		3.1	225.
0.9	150	1735	13.80	-1.93	-3.23	-0.30	0.6	52.
1.8	300	1885	12.51	-1.30	-2.16	-0.76	0.4	83.
2.5	415.	2000.	12.83	0.25	4.86	7.78	0.4	74.
3.1	500.	2085	13.18	0.42	4.48	7.41	0.4	68.
5.7	915.	2500.	12.92	0.01	-0.90	2.03	2.0	205.
8.8	1415.	3000.	10.99	-2.19	-3.99	-1.06	4.9	201.
14.6	2415.	4000.	5.03	-5.97	-2.78	0.15		
20.8	3415.	5000.	-0.12	-5.15	-1.70	-1.23		
26.4	4415.	6000.	-5.94	-5.82	-6.56	-3.63		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3350
 DATE 10/21/76 TIME 13:03MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	2.2	2.2	3.1	225.
0.5	76.	1661.	-0.2	-1.0	1.0	14.
1.0	164.	1749.	-0.4	-0.3	0.5	59.
1.5	244.	1829.	-0.3	0.2	0.4	120.
2.0	335.	1920.	-0.4	-0.2	0.5	60.
2.5	411.	1996.	-0.4	-0.1	0.4	74.
3.0	487.	2072.	-0.4	-0.1	0.4	80.
3.5	563.	2148.	-0.1	-0.3	0.3	9.
4.0	639.	2224.	-0.6	-0.4	0.7	56.
4.5	716.	2301.	-0.7	0.6	0.9	130.
5.0	792.	2377.	0.0	1.7	1.7	180.
5.5	883.	2468.	1.1	1.9	2.1	209.
6.0	978.	2563.	0.5	1.8	1.9	195.
6.5	1054.	2639.	2.3	1.4	2.7	237.
7.0	1130.	2715.	1.6	1.8	2.4	222.
7.5	1206.	2791.	1.4	2.5	2.8	210.
8.0	1283.	2868.	2.2	3.1	3.8	216.
8.5	1359.	2944.	2.4	4.1	4.7	210.
9.0	1464.	3049.	1.2	4.9	5.1	195.
9.5	1553.	3138.	0.7	3.8	3.9	190.
10.0	1629.	3214.	0.3	3.5	3.6	185.
10.5	1705.	3290.	1.0	3.3	3.4	196.
11.0	1815.	3400.	1.7	3.2	3.7	208.
11.5	1895.	3480.	1.8	2.4	3.0	217.
12.0	1971.	3556.	2.8	2.0	3.5	234.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3322
 DATE 10/23/76 TIME 06:38MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-3.02		0.0		2.1	150.
1.0	150	1735	-3.86	6.88	9.51	12.44	2.3	115.
1.5	* 228	1813	6.34		4.83	7.76		
2.0	300	1885	6.33	2.47	0.74	3.67	3.1	200.
2.7	415.	2000.	6.34	0.48	-1.48	1.45	3.5	228.
3.3	500	2085.	5.98	-0.82	-0.74	2.19	4.7	246.
6.0	915.	2500.	4.92	-0.96	-1.67	1.25	6.5	251.
9.3	1415.	3000.	1.22	-3.80	-3.01	-0.08	7.8	262.
15.7	2415.	4000.	-6.92	-8.14	-2.70	0.23		
21.5	3415.	5000.	-15.04	-8.12	-2.95	-0.03		
27.6	4415.	6000.	-21.79	-6.75	-5.18	-2.25		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3322
 DATE 10/23/76 TIME 06:38MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-1.0	1.8	2.1	150.
0.5	76.	1661.	-1.6	2.6	3.1	148.
1.0	152.	1737.	-2.1	0.9	3.2	114.
1.5	229.	1814.	0.5	2.1	3.2	193.
2.0	305.	1890.	1.1	3.0	3.2	201.
2.5	381.	1966.	1.9	2.1	3.9	223.
3.0	457.	2042.	3.5	2.4	4.3	235.
3.5	533.	2118.	4.9	1.4	5.1	254.
4.0	610.	2195.	7.2	2.0	7.5	255.
4.5	686.	2271.	9.2	2.9	9.6	253.
5.0	762.	2347.	7.3	2.7	7.8	249.
5.5	838.	2423.	5.9	1.5	6.1	255.
6.0	914.	2499.	6.2	2.1	6.5	251.
6.5	991.	2576.	5.8	2.5	6.3	247.
7.0	1067.	2652.	6.1	2.2	6.5	250.
7.5	1143.	2728.	6.1	1.8	6.4	253.
8.0	1219.	2804.	7.1	1.9	7.4	255.
8.5	1295.	2880.	7.4	1.5	7.5	258.
9.0	1372.	2957.	7.6	0.9	7.7	263.
9.5	1448.	3033.	7.9	1.2	7.9	262.
10.0	1524.	3109.	8.3	1.2	8.3	262.
10.5	1601.	3186.	7.7	0.6	7.7	265.
11.0	1677.	3262.	9.2	0.4	9.3	267.
11.5	1753.	3338.	9.0	0.4	9.0	267.
12.0	1829.	3414.	10.0	0.9	10.0	265.

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3324

DATE 10/23/76

TIME 12:57MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		19.05		0.0		3.9	270.
1.0	150	1735	17.81	-1.25	-2.47	0.46	3.9	250.
2.0	300	1885	16.64	-1.16	-4.08	-1.16	4.5	246.
2.6	415.	2000.	14.38	-1.14	-2.33	0.60	4.4	244.
3.0	500	2085	14.63	-0.87	-2.33	0.60	4.9	247.
3.5	915.	2500.	10.53	-4.10	-2.54	0.39	7.2	253.
4.7	1415.	3000.	8.86	-1.39	-1.65	1.28	8.2	254.
13.7	2415.	4000.	-0.13	-9.26	-1.51	1.42		
19.6	3415.	5000.	-3.90	-3.77	1.72	4.65		
24.8	4415.	6000.	-9.87	-5.98	0.0	2.93		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3324

DATE 10/23/76

TIME 12:57MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	3.9	0.0	3.9	270.
0.5	76.	1661.	2.1	0.6	2.2	254.
1.0	152.	1737.	3.7	1.3	4.0	250.
1.5	229.	1814.	3.7	1.6	4.0	246.
2.0	307.	1892.	4.1	1.8	4.5	246.
2.5	397.	1982.	3.8	2.0	4.3	243.
3.0	492.	2077.	4.4	1.9	4.8	247.
3.5	580.	2165.	5.2	2.0	5.6	249.
4.0	682.	2267.	6.7	2.6	7.2	255.
4.5	766.	2351.	6.3	1.7	6.6	255.
5.0	843.	2428.	4.4	0.9	4.5	258.
5.5	920.	2505.	7.0	2.2	7.4	253.
6.0	997.	2582.	8.0	2.1	8.2	255.
6.5	1073.	2658.	8.1	2.4	8.4	253.
7.0	1150.	2735.	7.5	2.1	7.8	254.
7.5	1226.	2811.	7.6	2.4	8.0	252.
8.0	1302.	2887.	8.1	2.4	8.5	254.
8.5	1378.	2963.	7.8	2.0	8.0	256.
9.0	1454.	3039.	8.0	2.4	8.4	253.
9.5	1548.	3133.	10.3	3.1	10.8	253.
10.0	1708.	3293.	14.5	4.9	15.3	251.
10.5	1830.	3415.	11.5	4.0	12.1	251.
11.0	1906.	3491.	8.9	3.2	9.5	250.
11.5	1992.	3577.	10.0	3.6	10.6	250.
12.0	2096.	3681.	12.0	4.0	12.7	252.



UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 5323

DATE 10/25/76

TIME 06:38MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-2.73		0.0		2.8	150.
1.0	150	1735	3.66	6.39	9.75	12.68	4.0	157.
1.5	* 228	1813	4.83		2.24	5.16		
2.0	300	1885	4.83	1.17	0.0	2.93	3.1	196.
2.7	415.	2000.	4.26	-0.28	-1.49	1.44	2.8	204.
3.3	500	2085.	4.08	-0.46	0.0	2.93	2.4	232.
6.0	915.	2500.	2.27	-1.81	-1.50	1.43	M	M
9.3	1415.	3000.	-0.89	-3.16	-2.47	0.46	M	M
15.2	2415.	4000.	-9.77	-8.88	-3.49	-0.57		
21.4	3415.	5000.	-16.44	-6.67	-0.79	2.14		
26.9	4415.	6000.	-21.89	-5.45	-3.60	-0.67		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 5323

DATE 10/25/76

TIME 06:38MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-1.4	2.5	2.8	150.
0.5	76.	1661.	-2.7	3.3	4.3	142.
1.0	152.	1737.	-1.5	3.7	4.0	157.
1.5	229.	1814.	0.3	4.1	4.1	185.
2.0	305.	1890.	0.9	3.0	3.1	196.
2.5	381.	1966.	0.7	2.8	2.9	193.
3.0	457.	2042.	1.7	2.2	2.8	218.
3.5	533.	2118.	1.8	0.9	2.0	243.
4.0	610.	2195.	2.8	2.6	3.0	226.
4.5	686.	2271.	2.9	2.9	4.1	226.

UTAH UAUH

ELEV 1585 METERS

SOUNDING ID 3327

DATE 10/25/76 TIME 13:28MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.09		0.0			
0.8	150	1735	9.64	-2.46	-3.47	-0.54	6.2	270.
1.5	300	1885	8.49	-1.15	-4.23	-1.31	11.4	275.
2.1	415.	2000.	6.34	-1.73	-3.88	-0.95	5.1	271.
2.5	500	2085.	6.25	-0.51	-4.08	-1.15	7.6	256.
4.2	915.	2500.	1.12	-4.26	-3.93	-1.02	11.1	274.
6.3	1415.	3000.	-3.12	-5.10	-3.24	-0.31	10.8	288.
12.2	2415.	4000.	-11.55	-8.45	-3.13	-0.20	15.2	281.
18.7	3415.	5000.	-18.65	-7.10	-2.38	0.55		
24.7	4415.	6000.	-25.65	-7.00	-1.00	1.92		

UTAH UAUH

ELEV 1585 METERS

SOUNDING ID 3327

DATE 10/25/76 TIME 13:28MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	6.2	0.0	6.2	270.
0.5	76.	1661.	11.3	-1.6	11.5	278.
1.0	203.	1788.	11.3	-0.6	11.3	273.
1.5	292.	1877.	5.0	-0.3	5.0	273.
2.0	387.	1972.	6.0	2.1	6.3	251.
2.5	497.	2082.	11.2	-0.7	11.2	273.
3.0	589.	2174.	9.7	-0.9	9.7	275.
3.5	709.	2294.	4.3	-0.8	4.3	280.
4.0	863.	2448.	8.5	-3.3	9.1	292.
4.5	1008.	2593.	13.5	-3.1	13.8	283.
5.0	1111.	2696.	13.6	-3.0	13.9	283.
5.5	1187.	2772.	10.6	-2.7	10.9	284.
6.0	1315.	2900.	12.9	-3.3	13.4	284.
6.5	1469.	3054.	16.0	-2.5	16.2	279.
7.0	1549.	3134.	12.9	-0.9	13.0	274.
7.5	1625.	3210.	12.8	0.1	12.8	270.
8.0	1701.	3286.	12.7	0.4	12.7	268.
8.5	1777.	3362.	11.2	0.9	11.3	265.
9.0	1853.	3438.	13.0	3.4	13.5	255.
9.5	1930.	3515.	12.3	5.2	13.4	247.
10.0	2006.	3591.	14.0	6.2	15.4	246.
10.5	2099.	3684.	11.9	7.1	13.9	239.
11.0	2198.	3783.	15.6	8.4	17.7	242.
11.5	2294.	3879.	15.6	9.5	18.3	239.
12.0	2380.	3965.	11.2	8.1	13.9	234.



UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3325

DATE 10/27/76

TIME 06:47MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-7.12		0.0		4.6	135.
1.0	150	1735	-3.04	4.08	6.69	9.62	3.3	163.
1.5	* 228	1813	-2.05		1.71	4.64		
2.0	300	1885	-2.15	0.89	0.57	3.50	1.5	195.
2.7	415.	2000.	-2.15	0.29	-1.71	1.22	1.1	139.
3.3	500	2085	-2.61	-0.75	-2.29	0.64	2.1	90.
6.0	915.	2500.	-3.12	-0.40	-1.72	1.21	7.4	30.
9.3	1415.	3000.	-7.12	-4.09	-2.89	0.03	9.5	31.
13.8	* 2184	3769	-13.34		1.56	4.49		
15.0	* 2374	3959	-9.08		3.50	6.43		
15.3	2415.	4000.	-8.89	-1.79	0.19	3.12		
21.5	3415.	5000.	-14.85	-5.96	-2.76	0.17		
26.8	4415.	6000.	-23.50	-8.65	-7.20	-4.27		

UTAH UAUB

ELEV 1585 METERS

SOUNDING ID 3325

DATE 10/27/76

TIME 06:47MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-3.3	3.3	4.6	135.
0.5	76.	1661.	-2.4	4.0	4.6	149.
1.0	152.	1737.	-0.9	3.2	3.3	164.
1.5	229.	1814.	-0.0	1.7	1.7	179.
2.0	305.	1890.	0.4	1.4	1.5	196.
2.5	381.	1966.	-0.3	0.7	0.8	161.
3.0	457.	2042.	-1.5	0.6	1.6	112.
3.5	533.	2118.	-2.3	-0.8	2.5	72.
4.0	610.	2195.	-3.2	-2.0	3.8	58.
4.5	686.	2271.	-4.3	-5.7	7.1	37.
5.0	762.	2347.	-5.1	-6.9	8.5	36.
5.5	838.	2423.	-4.6	-6.3	7.8	30.
6.0	914.	2499.	-3.7	-6.4	7.4	31.
6.5	991.	2576.	-3.7	-6.1	7.2	34.
7.0	1067.	2652.	-4.2	-6.2	7.5	34.
7.5	1143.	2728.	-4.5	-5.9	7.4	38.
8.0	1220.	2805.	-4.2	-6.3	7.5	34.
8.5	1296.	2881.	-4.7	-6.9	8.3	34.
9.0	1372.	2957.	-5.0	-7.4	8.9	34.
9.5	1452.	3037.	-4.8	-8.7	9.9	33.
10.0	1528.	3113.	-5.6	-8.5	10.2	33.
10.5	1606.	3191.	-2.4	-10.3	10.5	35.
11.0	1689.	3274.	-4.1	-8.9	9.8	27.
11.5	1769.	3354.	-3.9	-7.4	8.4	27.
12.0	1847.	3432.	-4.5	-7.1	8.5	2.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3317
 DATE 10/27/76 TIME 13:07MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.37		0.0		4.1	45.
0.7	150	1735	10.64	-1.73	-6.03	-3.10	4.6	48.
1.2	300	1885	8.67	-1.96	-2.57	0.36	4.0	43.
1.7	415.	2000.	7.83	-1.21	-4.06	-1.13	5.0	38.
2.2	500	2085.	6.75	-0.71	-0.74	-2.19	3.7	39.
4.8	915.	2500.	5.58	-1.18	-2.41	0.52	6.5	41.
8.0	1415.	3000.	2.93	-2.63	-2.25	0.68	5.7	35.
12.3	*2093	3678	-0.13		4.71	7.64		
13.0	*2207	3792	3.50		4.13	7.06		
14.4	2415.	4000.	3.51	0.57	-1.12	1.80		
20.8	3415.	5000.	-0.32	-3.82	-1.89	-1.03		
26.7	4415.	6000.	-6.33	-6.01	-5.99	-3.07		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3317
 DATE 10/27/76 TIME 13:07MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-2.9	-2.9	4.1	45.
0.5	76.	1661.	-0.5	-0.4	0.6	50.
1.0	224.	1809.	-1.9	-1.8	2.6	46.
1.5	380.	1965.	-3.5	-4.2	5.5	40.
2.0	467.	2052.	-2.6	-3.5	4.3	37.
2.5	556.	2141.	-1.9	-1.9	2.7	44.
3.0	633.	2218.	-3.7	-3.5	5.1	47.
3.5	709.	2294.	-4.0	-3.3	5.2	50.
4.0	787.	2372.	-4.1	-4.0	5.7	45.
4.5	863.	2448.	-4.3	-4.3	6.1	45.
5.0	948.	2533.	-4.2	-5.3	6.7	38.
5.5	1024.	2609.	-4.9	-4.9	6.9	45.
6.0	1100.	2685.	-5.4	-5.3	7.5	45.
6.5	1177.	2762.	-4.4	-5.7	7.2	37.
7.0	1255.	2840.	-4.0	-5.8	7.1	35.
7.5	1343.	2928.	-3.7	-5.7	6.8	33.
8.0	1419.	3004.	-3.2	-4.6	5.6	35.
8.5	1495.	3080.	-4.0	-5.1	6.5	38.
9.0	1571.	3156.	-3.5	-4.8	5.9	36.
9.5	1648.	3233.	-3.5	-4.9	6.1	36.
10.0	1748.	3333.	-4.3	-5.9	7.3	36.
10.5	1827.	3412.	-2.8	-5.5	6.2	27.
11.0	1903.	3488.	-2.9	-5.3	6.0	29.
11.5	1979.	3564.	-5.2	-4.3	6.7	51.
12.0	2055.	3640.	-7.8	-3.8	8.7	64.



UTAH UAUB ELEV 1585 METERS SOUNDING ID 3320
 DATE 10/29/76 TIME 06:48MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-6.33		0.0		3.1	150.
1.0	150	1735	-2.16	4.17	6.46	9.39	0.5	177.
1.5	* 228	1813	-0.13		4.74	7.67		
2.0	? 300	1885	0.25	2.42	1.51	4.44	0.5	249.
2.7	415.	? 2000.	0.83	0.58	1.13	4.06	0.3	270.
3.3	? 500	2085	1.21	0.38	0.75	3.68	0.2	244.
6.0	915.	? 2500.	2.26	1.05	0.56	3.49	2.1	234.
9.3	1415.	? 3000.	1.70	-0.57	-0.75	2.18	4.9	354.
15.8	2415.	4000.	-1.28	-2.97	-0.19	3.12		
22.2	3415.	5000.	-7.70	-6.43	-2.71	0.22		
28.6	4415.	6000.	-15.04	-7.34	-0.59	2.34		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3320
 DATE 10/29/76 TIME 06:48MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-1.5	2.7	3.1	150.
0.5	76.	1661.	-0.7	2.1	2.2	161.
1.0	152.	1737.	-0.0	0.5	0.5	177.
1.5	229.	1814.	0.2	0.8	0.9	196.
2.0	305.	1890.	0.4	0.1	0.5	253.
2.5	381.	1966.	0.3	-0.1	0.4	284.
3.0	457.	2042.	0.2	0.0	0.2	252.
3.5	533.	2118.	0.2	0.1	0.3	238.
4.0	610.	2195.	1.4	0.1	1.4	266.
4.5	686.	2271.	1.5	0.6	1.6	250.
5.0	762.	2347.	1.7	0.9	1.9	241.
5.5	838.	2423.	1.7	1.2	2.0	235.
6.0	914.	2499.	1.7	1.2	2.1	234.
6.5	991.	2576.	2.1	0.3	2.1	261.
7.0	1067.	2652.	3.1	0.3	3.1	265.
7.5	1143.	2728.	3.2	-0.4	3.3	278.
8.0	1219.	2804.	3.1	-1.6	3.5	297.
8.5	1295.	2880.	2.7	-2.4	3.6	312.
9.0	1372.	2957.	0.7	-4.0	4.1	350.
9.5	1448.	3033.	0.2	-5.4	5.4	358.
10.0	1524.	3109.	0.1	-6.6	6.6	360.
10.5	1600.	3185.	0.6	-7.0	7.0	355.
11.0	1676.	3261.	0.8	-7.0	7.1	353.
11.5	1753.	3338.	0.9	-6.9	6.9	353.
12.0	1829.	3414.	1.3	-7.1	7.2	344.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3314
 TE 10/29/76 TIME 13:02MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		16.64		0.0		2.6	225.
1.0	150	1735	15.56	-1.08	-3.55	-0.63	1.3	246.
1.9	300	1885	14.03	-1.53	-2.15	0.78	0.7	255.
2.7	415.	2000.	13.74	-0.29	-1.08	1.85	0.9	259.
3.2	500	2085.	13.20	-0.54	-1.80	1.13	0.5	206.
5.9	915.	2500.	12.37	-0.83	-0.18	2.75	1.1	220.
9.2	1415.	3000.	10.44	-1.38	-1.82	1.11	4.8	358.
15.8	2415.	4000.	6.33	-4.66	-0.92	2.00		
22.2	3415.	5000.	1.12	-5.21	-2.83	0.10		
28.6	4415.	6000.	-6.43	-7.55	-2.50	0.42		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3314
 TE 10/29/76 TIME 13:02MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.8	1.8	2.6	225.
0.5	76.	1661.	1.4	1.0	1.7	234.
1.0	152.	1737.	1.1	0.5	1.2	240.
1.5	238.	1823.	1.0	0.3	1.0	256.
2.0	315.	1900.	0.6	0.2	0.6	255.
2.5	392.	1977.	1.1	0.1	1.1	266.
3.0	468.	2053.	0.5	0.2	0.5	243.
3.5	544.	2129.	-0.2	0.4	0.4	155.
4.0	620.	2205.	-0.6	0.2	0.7	290.
4.5	696.	2281.	1.3	0.3	1.3	285.
5.0	773.	2358.	0.7	0.7	1.0	223.
5.5	849.	2434.	0.8	0.5	1.0	237.
6.0	925.	2510.	0.7	0.9	1.1	217.
6.5	1001.	2586.	0.9	1.4	1.6	212.
7.0	1077.	2662.	0.3	0.5	0.6	213.
7.5	1154.	2739.	1.4	0.1	1.4	276.
8.0	1230.	2815.	1.5	2.0	2.5	323.
8.5	1306.	2891.	0.2	3.4	3.4	33.
9.0	1382.	2967.	0.1	4.4	4.4	358.
9.5	1458.	3043.	0.3	5.2	5.2	356.
10.0	1535.	3120.	0.1	5.3	5.3	1.
10.5	1611.	3196.	0.1	4.9	4.9	354.
11.0	1687.	3272.	0.1	4.2	4.2	356.
11.5	1763.	3348.	0.3	3.8	3.8	350.
12.0	1839.	3424.	0.5	2.4	2.5	12.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3316
 TE 10/31/76 TIME 06:52MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-3.51		0.0		2.1	120.
1.0	150	1735	0.54	4.04	7.89	10.82	1.5	139.
2.0	300	1885	4.63	4.10	2.05	4.98	3.0	154.
2.0	* 304	1889	4.64		2.05	4.98		
2.7	415.	2000.	4.83	0.19	0.19	3.11	1.9	166.
3.3	500.	2085.	4.83	0.00	0.56	3.49	1.9	188.
6.0	915.	2500.	4.17	-0.28	-0.74	2.18	1.5	240.
9.3	1415.	3000.	2.17	-2.37	-2.44	0.49	2.9	197.
15.8	2415.	4000.	-3.81	-5.99	0.0	2.93		
22.2	3415.	5000.	-10.66	-6.85	-0.39	2.54		
28.8	4415.	6000.	-15.73	-5.07	-2.56	0.37		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3316
 TE 10/31/76 TIME 06:52MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

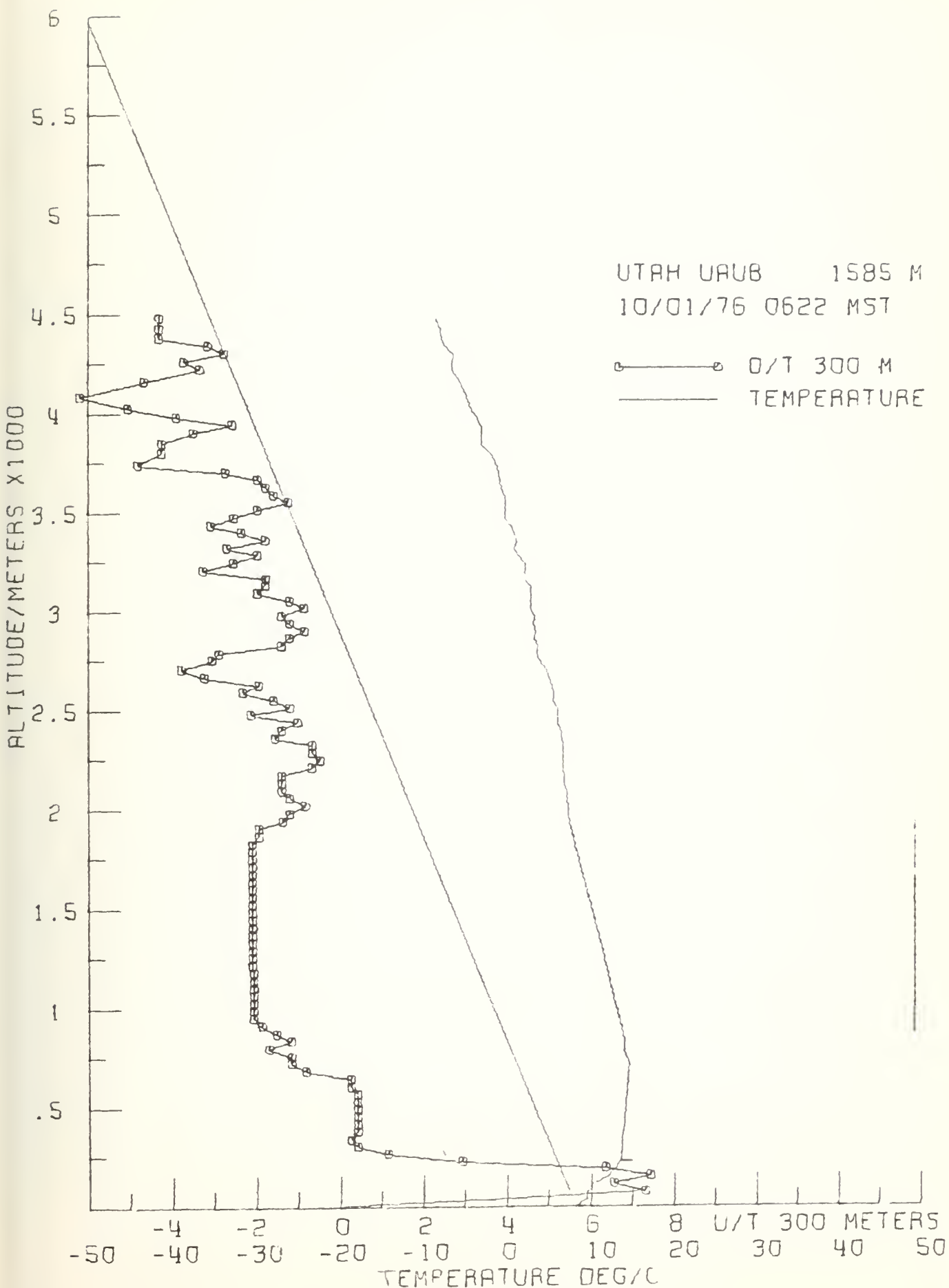
TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	-1.8	1.0	2.1	120.
0.5	76.	1661.	-1.7	3.2	3.6	151.
1.0	152.	1737.	-0.9	1.0	1.4	136.
1.5	229.	1814.	-1.2	1.2	1.6	134.
2.0	305.	1890.	-1.3	2.8	3.1	155.
2.5	381.	1966.	-0.5	1.9	2.0	165.
3.0	457.	2042.	-0.4	1.8	1.8	167.
3.5	533.	2118.	0.8	1.8	2.0	204.
4.0	610.	2195.	2.5	0.5	2.5	258.
4.5	686.	2271.	1.6	0.5	1.7	252.
5.0	762.	2347.	1.1	0.5	1.1	261.
5.5	838.	2423.	1.5	0.8	1.7	243.
6.0	914.	2499.	1.3	0.7	1.5	240.
6.5	991.	2576.	1.2	1.4	1.8	220.
7.0	1067.	2652.	0.4	1.8	2.8	189.
7.5	1143.	2728.	-0.0	2.5	2.5	180.
8.0	1219.	2804.	0.5	2.0	2.1	195.
8.5	1295.	2880.	0.2	2.4	2.4	180.
9.0	1372.	2957.	0.5	3.0	3.1	189.
9.5	1448.	3033.	1.1	2.6	2.8	203.
0.0	1524.	3109.	2.0	2.0	2.8	225.
0.5	1600.	3185.	2.9	1.9	3.5	238.
1.0	1676.	3261.	3.8	1.8	4.2	245.
1.5	1753.	3338.	4.7	1.8	5.1	249.
2.0	1829.	3414.	5.2	2.1	5.6	248.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3315
 TE 10/31/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

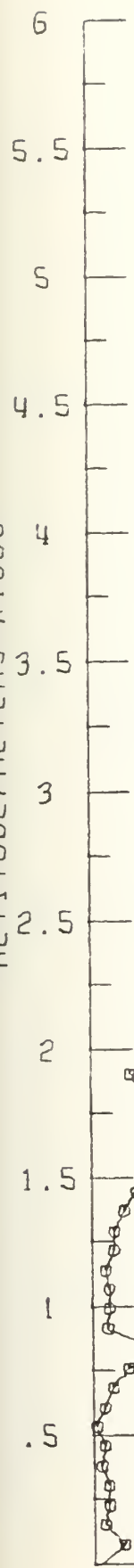
TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		19.85		0.0		2.3	225.
1.0	150	1735	18.78	-1.07	-1.93	0.99	0.9	319.
2.0	300	1885	17.27	-1.51	-0.88	2.05	0.9	315.
2.7	415.	2000.	16.91	-0.27	-0.88	2.04	1.8	287.
3.3	500	2085.	16.65	-0.35	-0.53	2.40	3.0	262.
5.9	915.	2500.	14.92	-1.73	-1.61	1.32	6.6	247.
8.8	1415.	3000.	10.99	-3.92	-1.81	1.12	7.0	253.
4.2	2415.	4000.	2.74	-8.26	-1.12	1.81		
0.8	3415.	5000.	0.07	-2.68	0.38	3.31		
6.6	4415.	6000.	-7.60	-7.66	-8.12	-5.19		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3315
 TE 10/31/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.6	1.6	2.3	225.
0.5	76.	1661.	0.4	-0.5	0.7	325.
1.0	152.	1737.	0.6	-0.7	0.9	319.
1.5	229.	1814.	0.8	-0.7	1.1	314.
2.0	305.	1890.	0.6	-0.6	0.9	315.
2.5	381.	1966.	1.3	-0.5	1.4	292.
3.0	457.	2042.	2.3	-0.4	2.3	281.
3.5	533.	2118.	3.2	0.3	3.4	247.
4.0	610.	2195.	4.0	2.0	4.5	244.
4.5	686.	2271.	4.5	1.6	4.7	250.
5.0	774.	2359.	5.5	1.9	5.8	251.
5.5	862.	2447.	5.7	2.0	6.0	251.
6.0	938.	2523.	6.2	2.9	6.8	245.
6.5	1030.	2615.	6.5	2.5	5.1	241.
7.0	1117.	2702.	6.0	2.9	6.6	244.
7.5	1210.	2795.	6.5	2.6	7.0	248.
8.0	1286.	2871.	6.4	2.6	6.9	248.
8.5	1362.	2947.	6.7	3.3	7.1	251.
9.0	1439.	3024.	6.6	2.0	6.9	253.
9.5	1515.	3100.	6.2	1.9	6.5	253.
0.0	1592.	3177.	6.3	2.0	6.6	252.
0.5	1696.	3281.	8.4	2.7	8.8	252.
1.0	1797.	3382.	8.2	3.0	8.7	250.
1.5	1873.	3458.	7.1	2.9	7.7	248.
2.0	1949.	3534.	7.7	2.1	8.8	242.

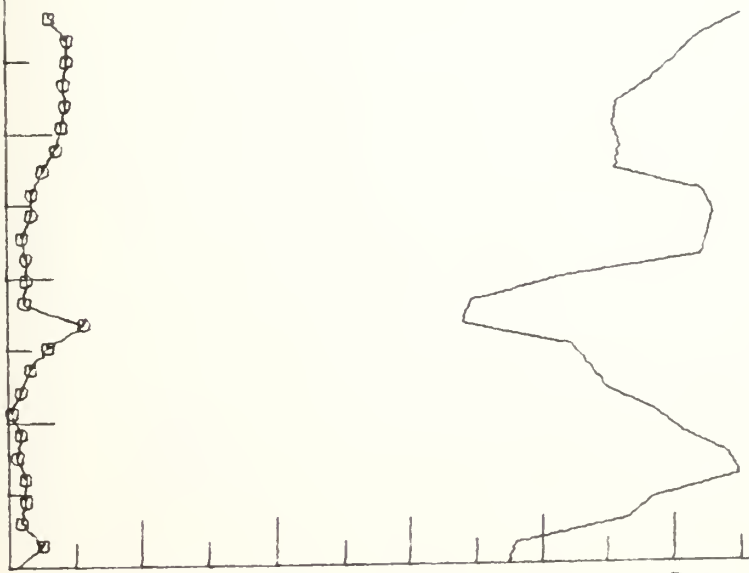
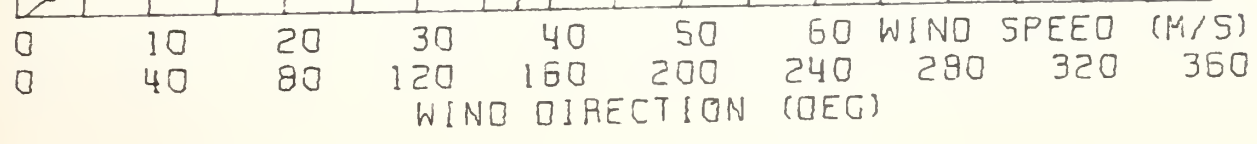


ALTITUDE/METERS X1000

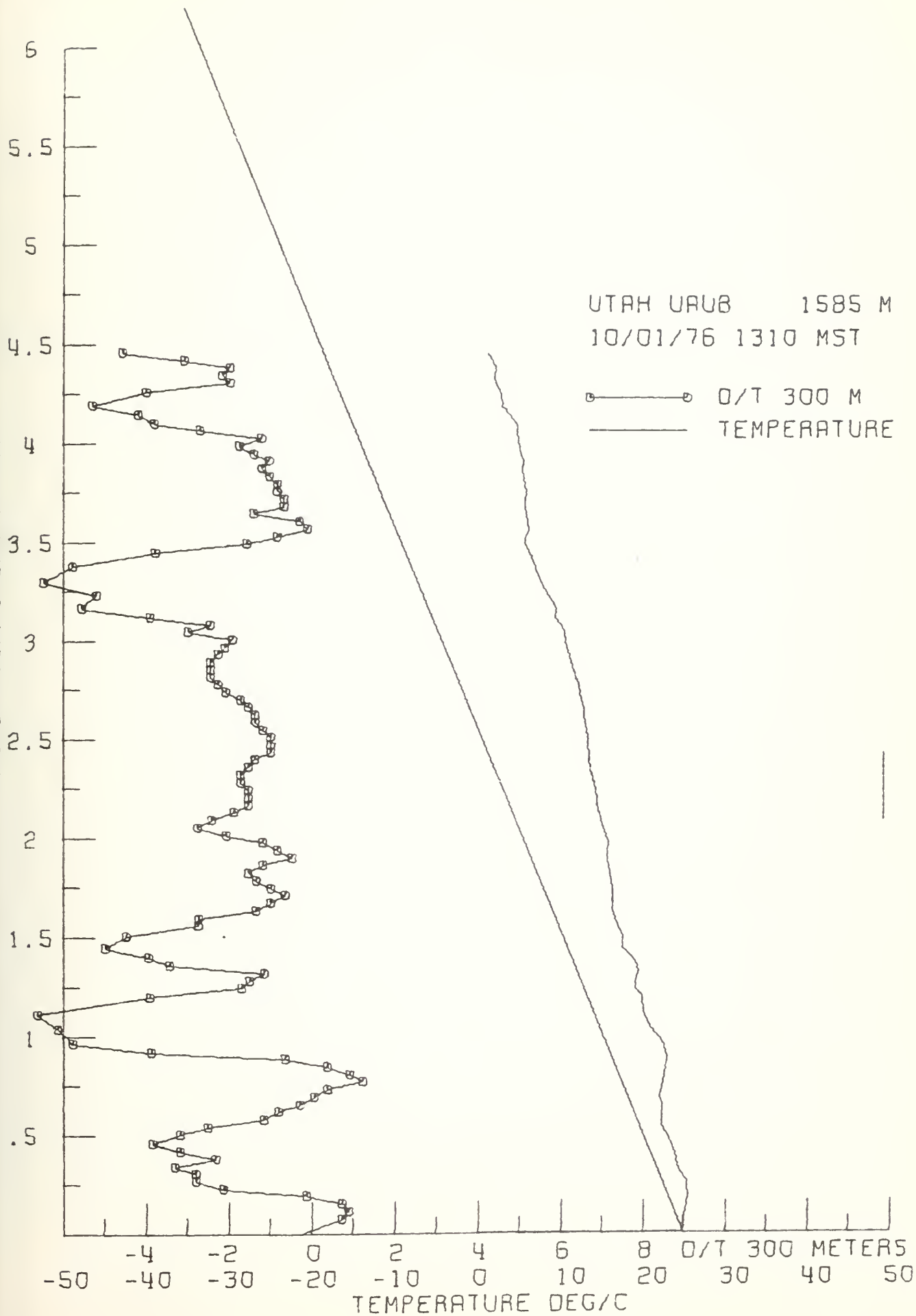


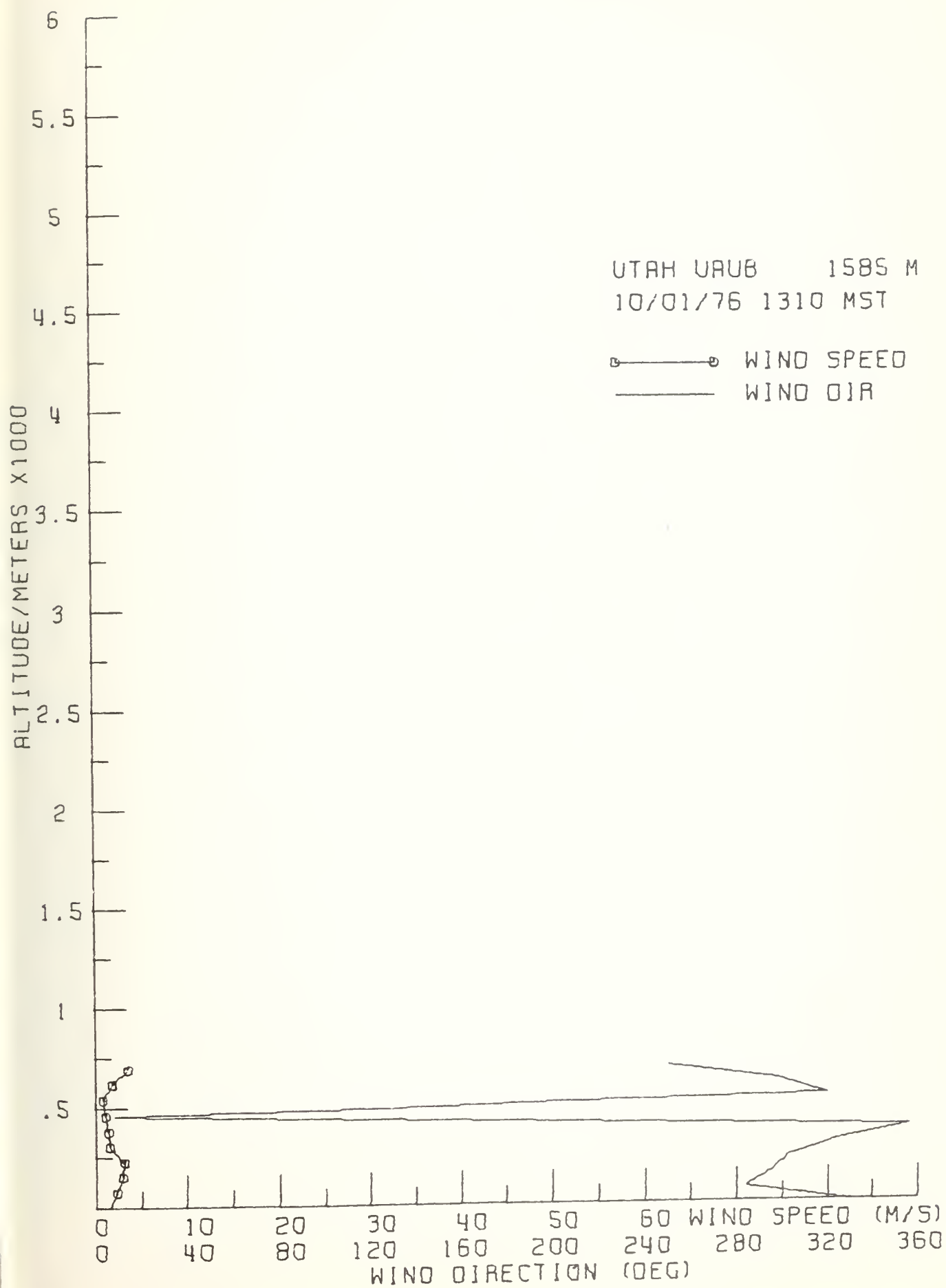
UTAH URB 1585 M
10/01/76 0622 MST

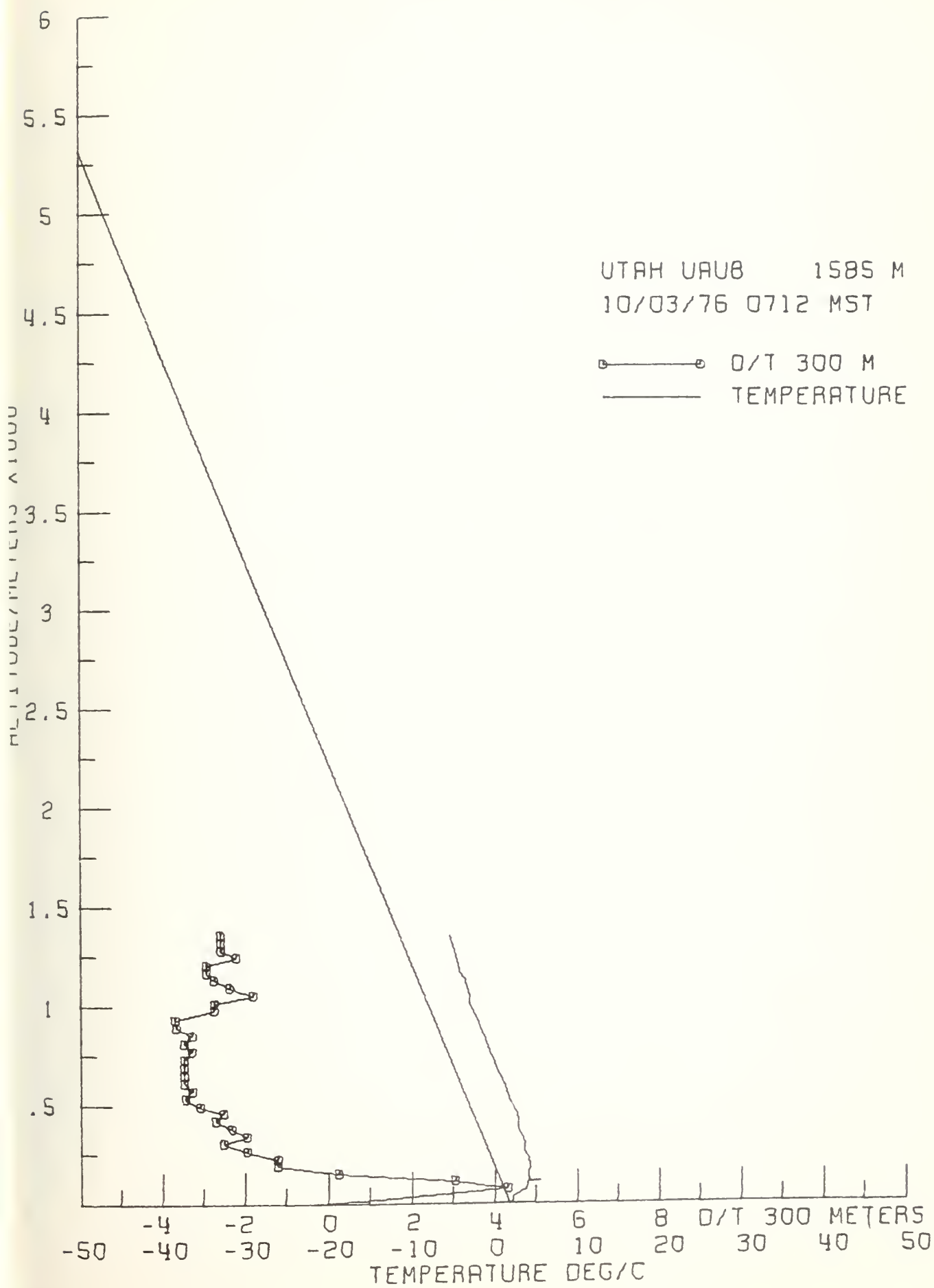
WIND SPEED
WIND DIR



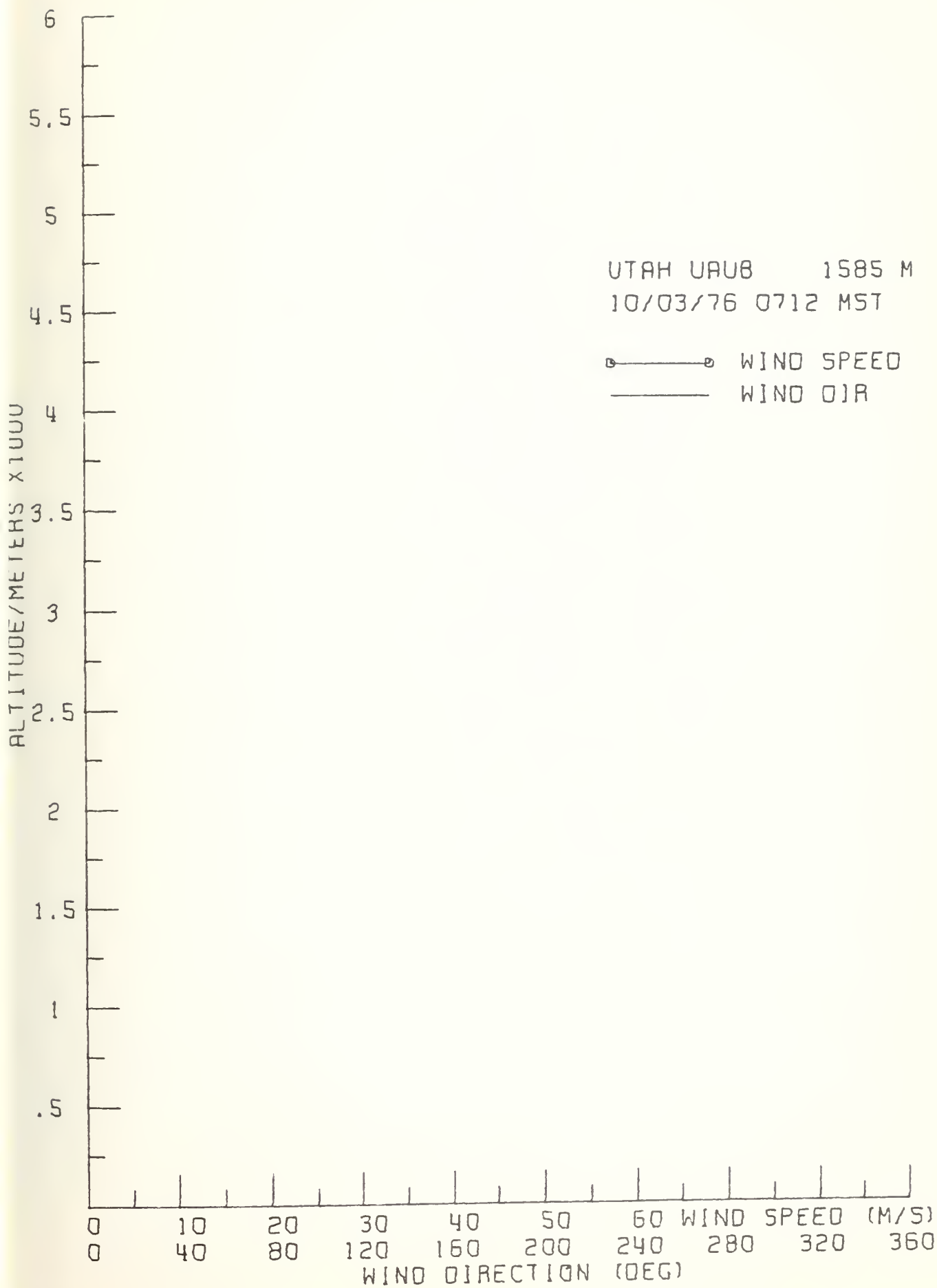
ALTITUDE/METERS X1000











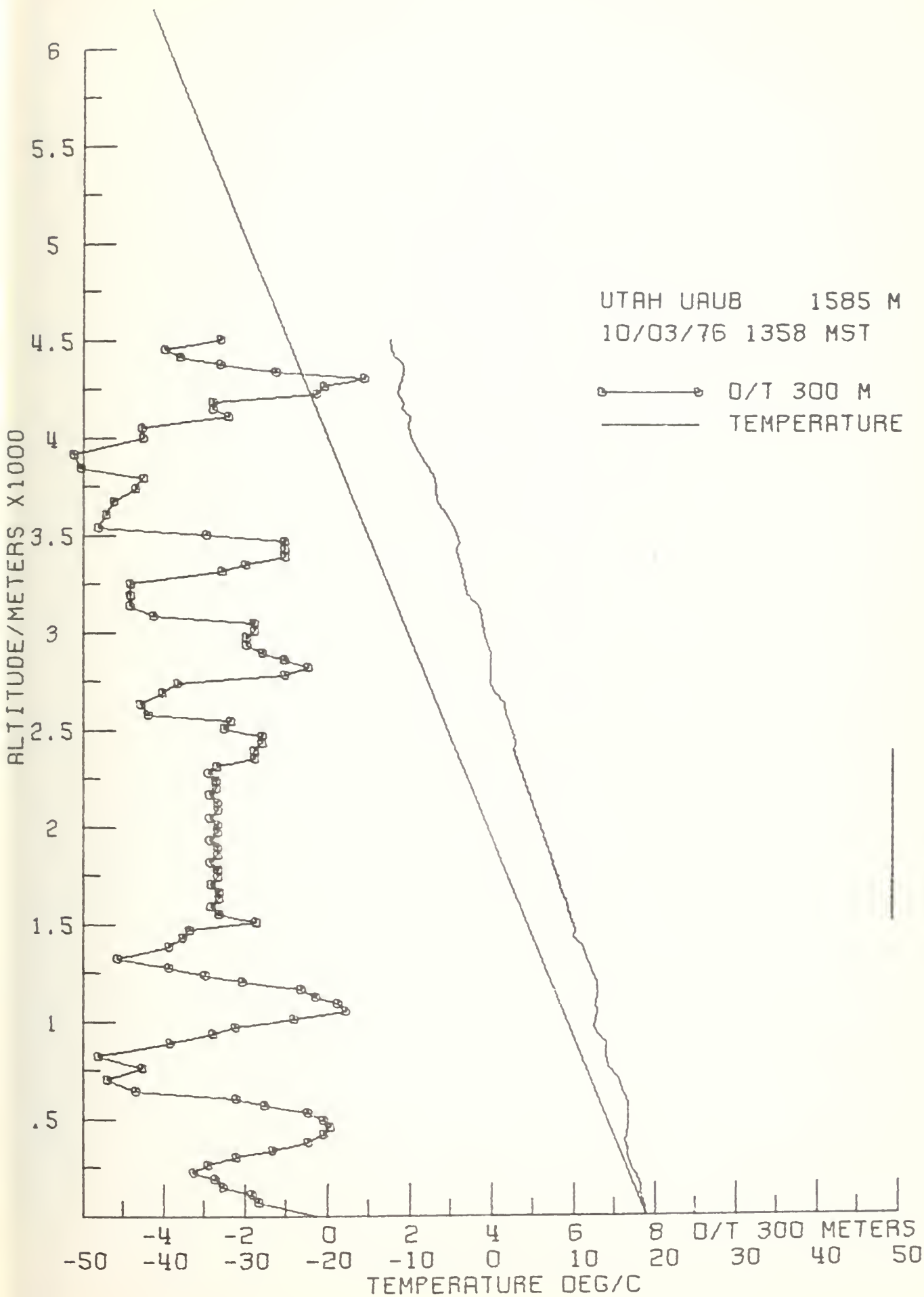
ALTITUDE/METERS X1000

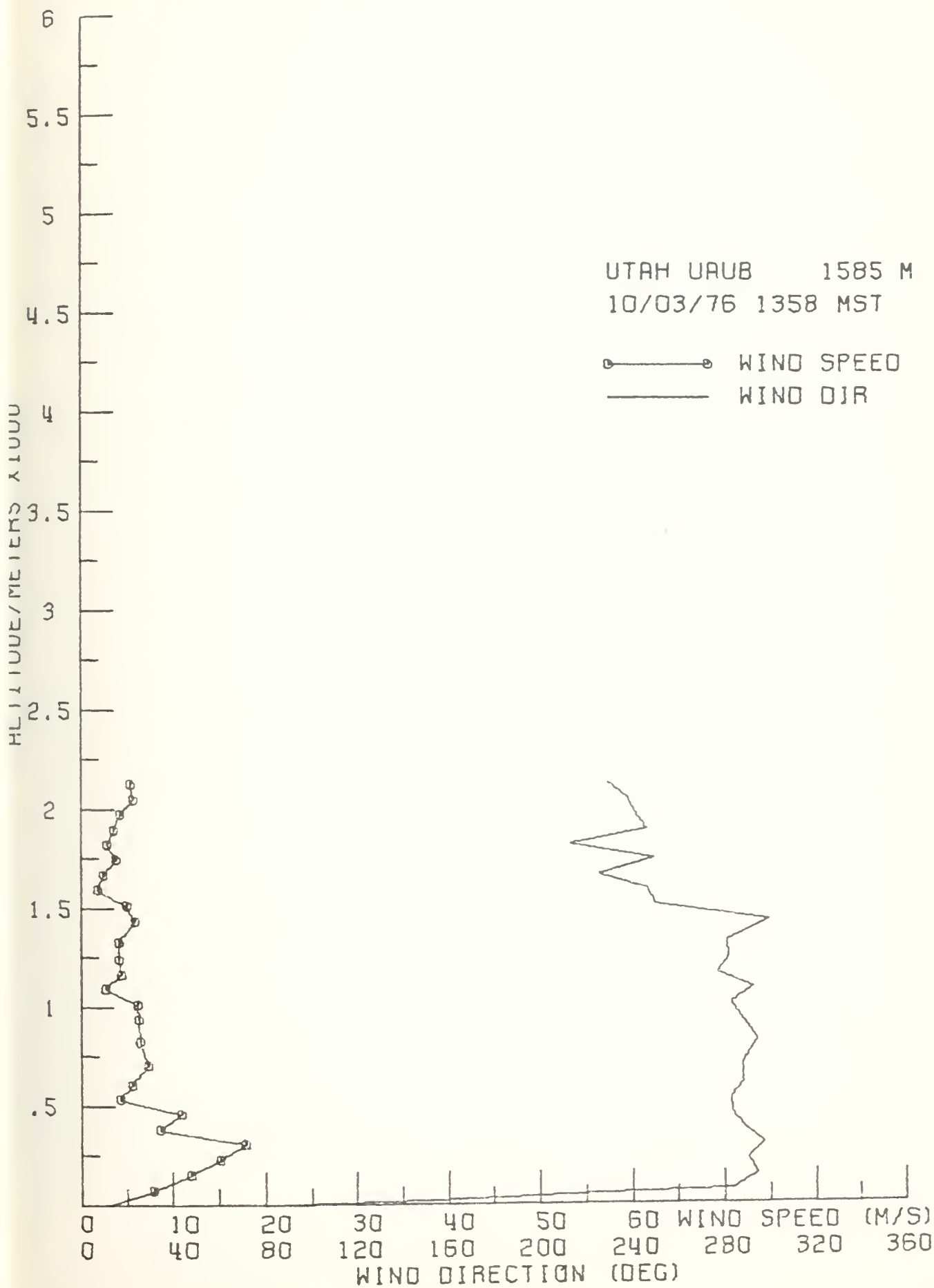
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5

UTAH UAUB 1585 M
10/03/76 1358 MST

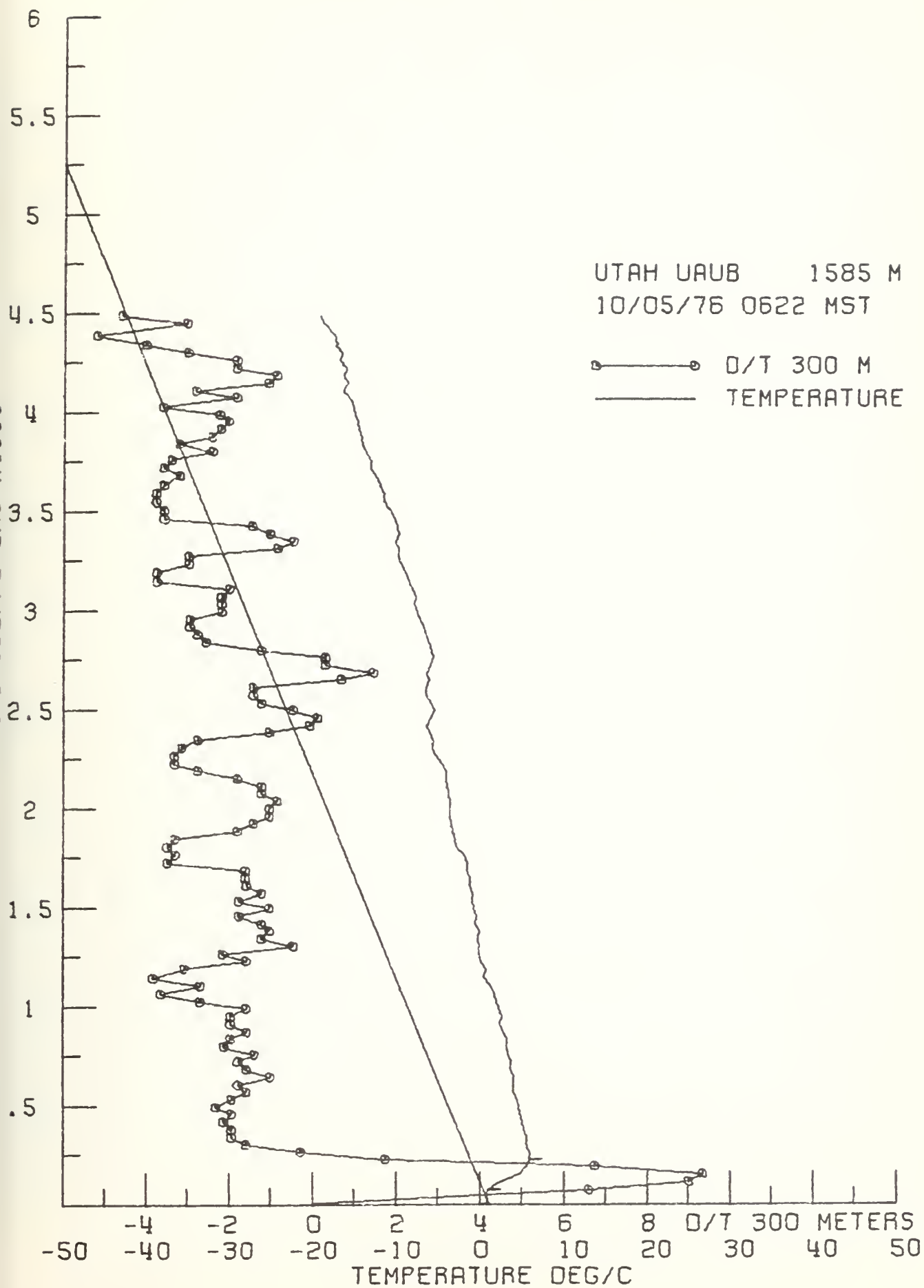
○—○ D/T 300 M
— TEMPERATURE

-50 -40 -30 -20 -10 0 10 20 30 40 50
D/T 300 METERS
TEMPERATURE DEG/C

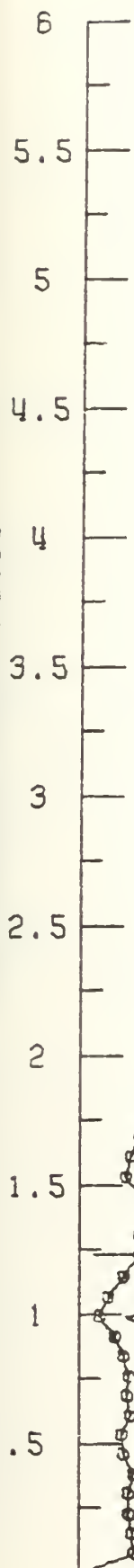








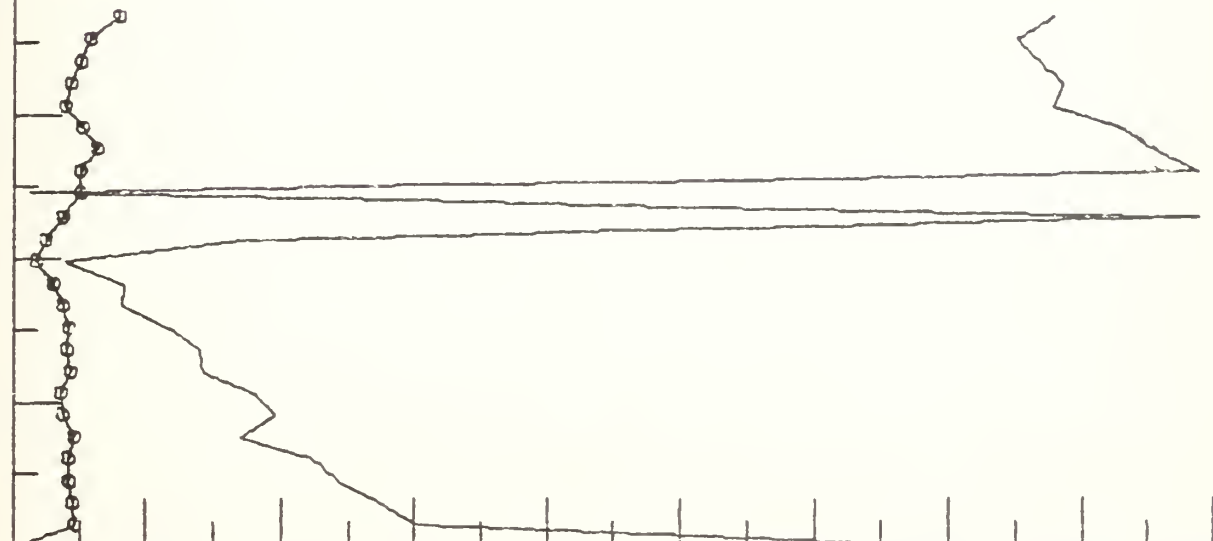
ALTITUDE/METERS X1000



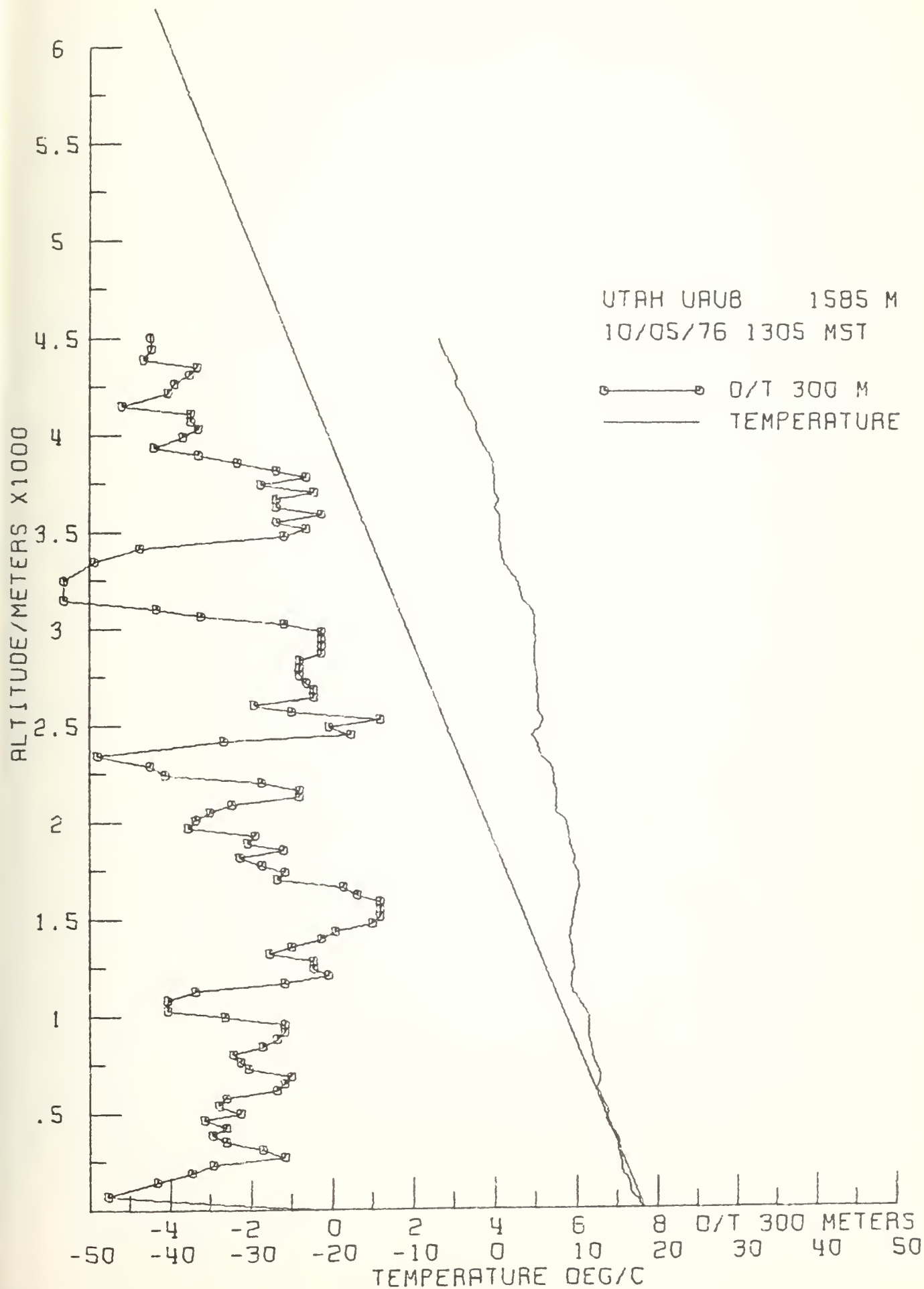
UTAH UAUB 1585 M
10/05/76 0622 MST

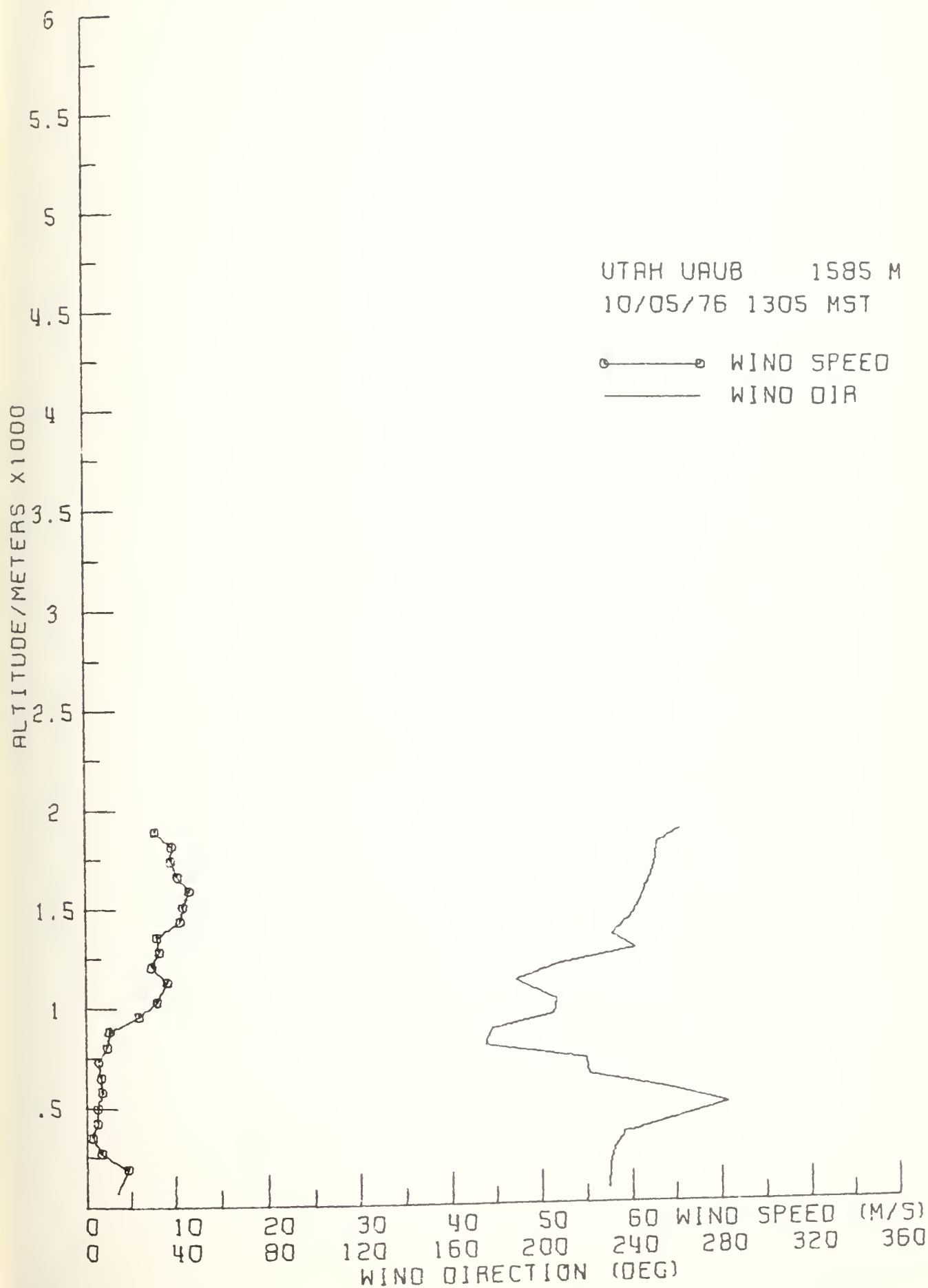
○—○ WIND SPEED
— WIND DIR

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360
0 40 80 120 160 200 240 280 320 360
WIND SPEED (M/S)
WIND DIRECTION (DEG)

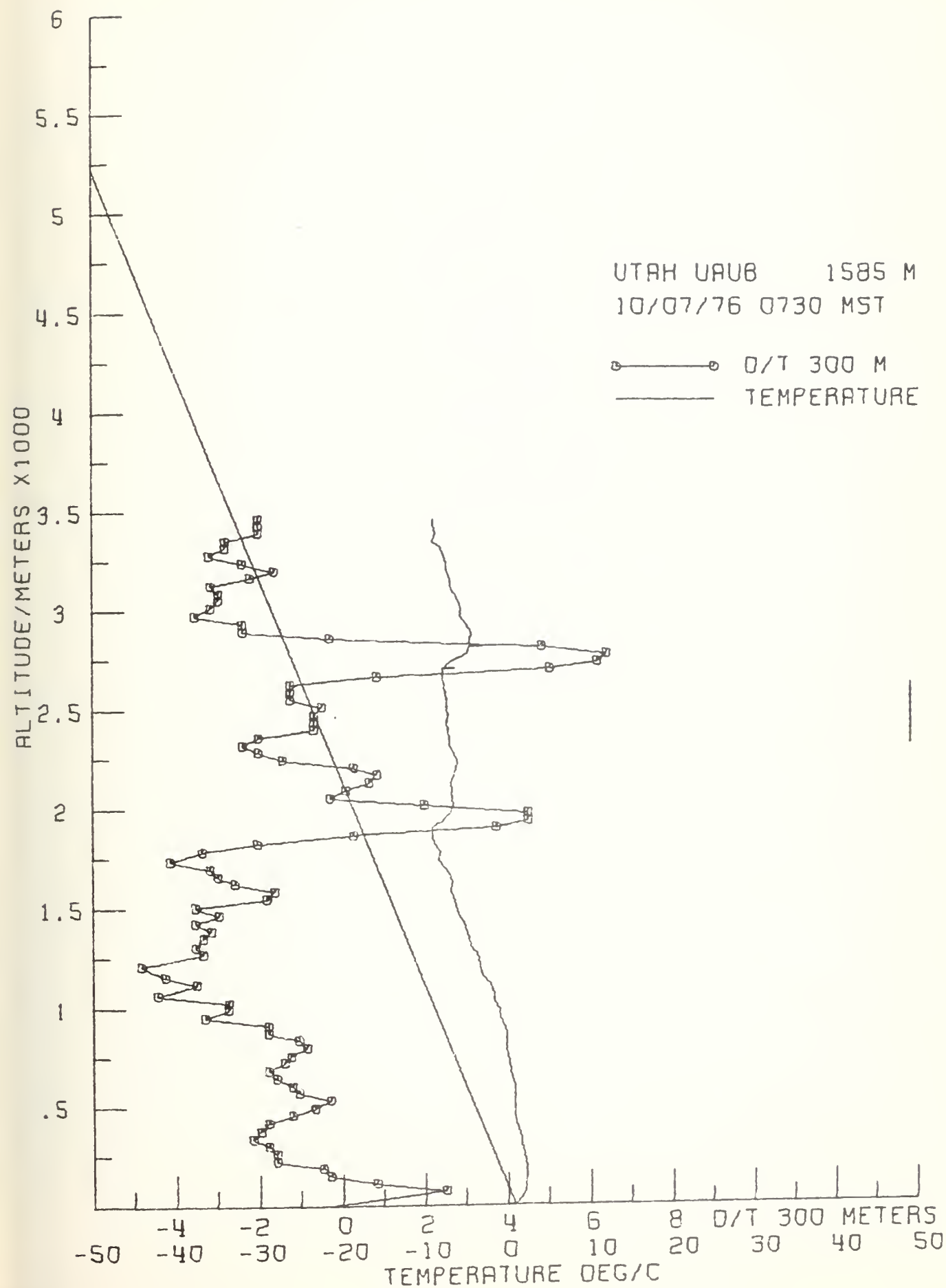


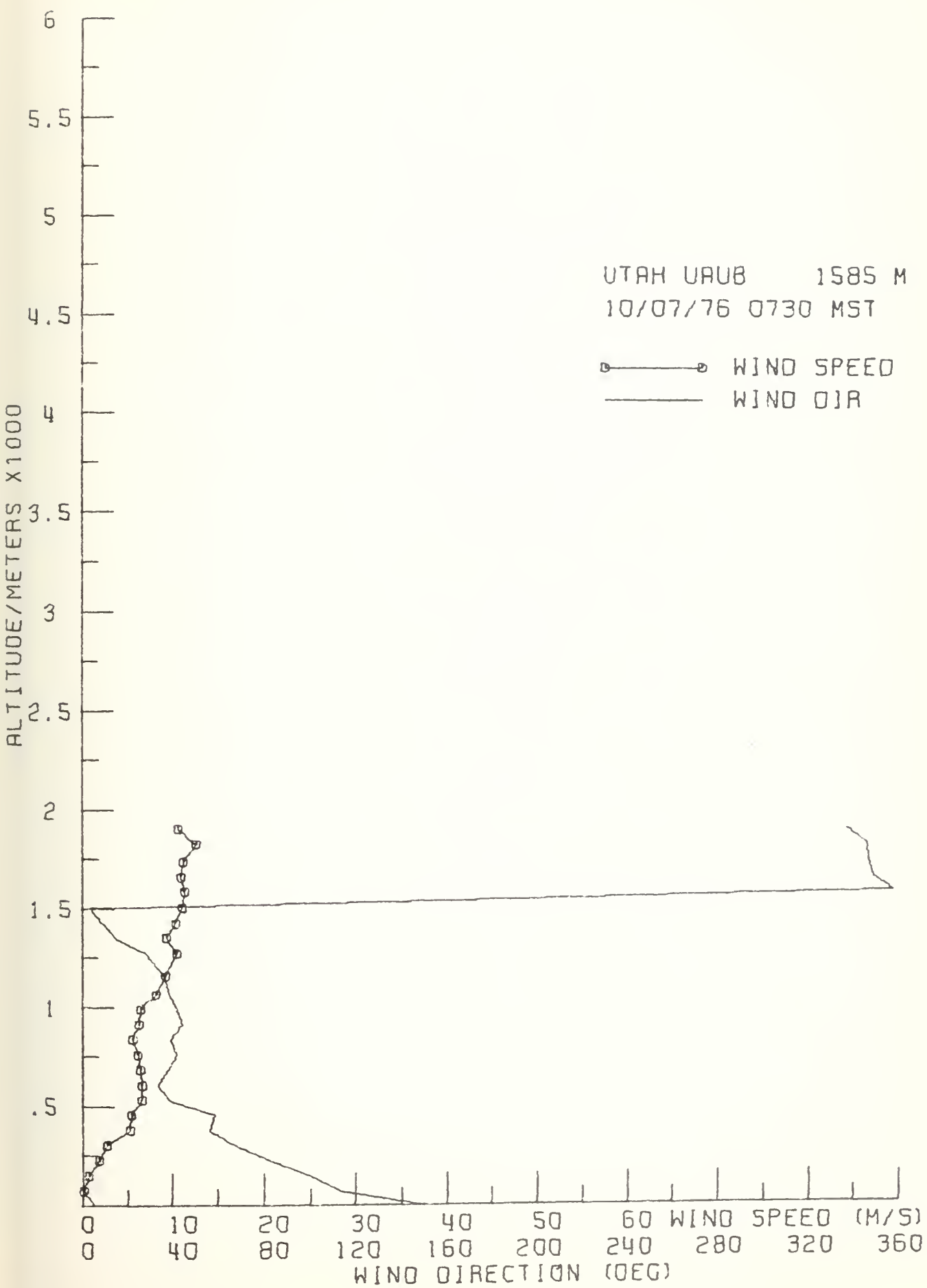




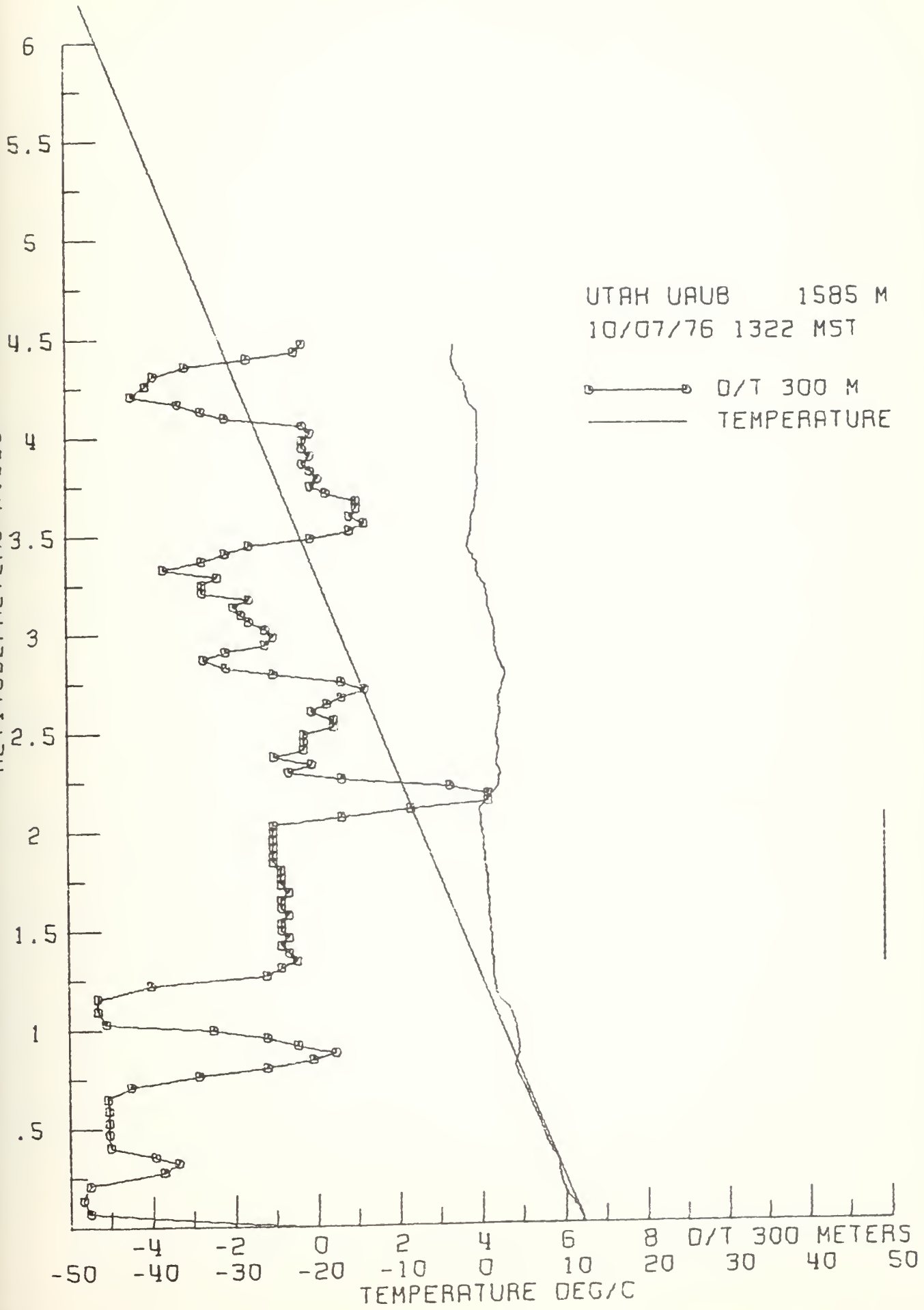






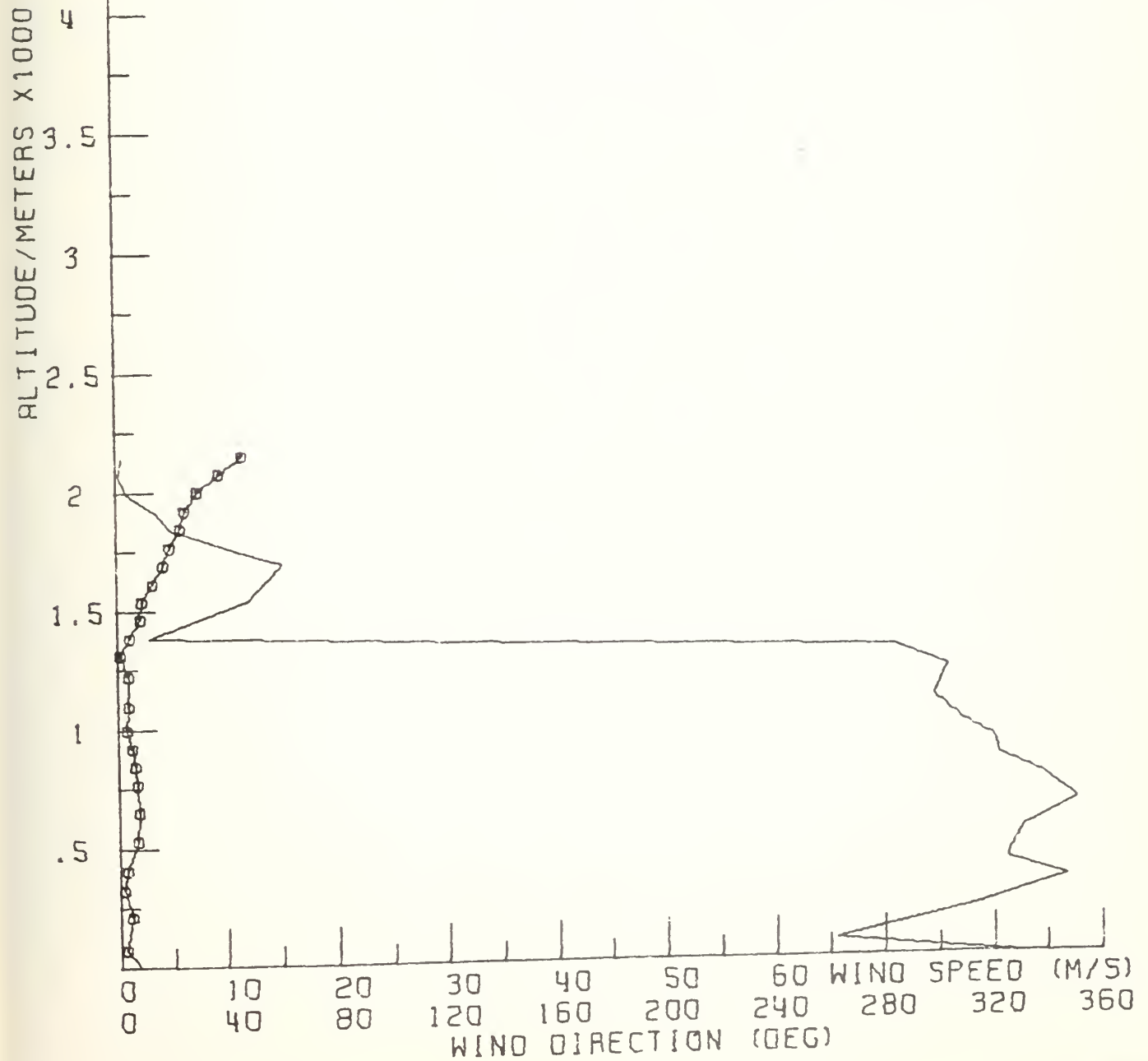


ALTITUDE/METERS X1000

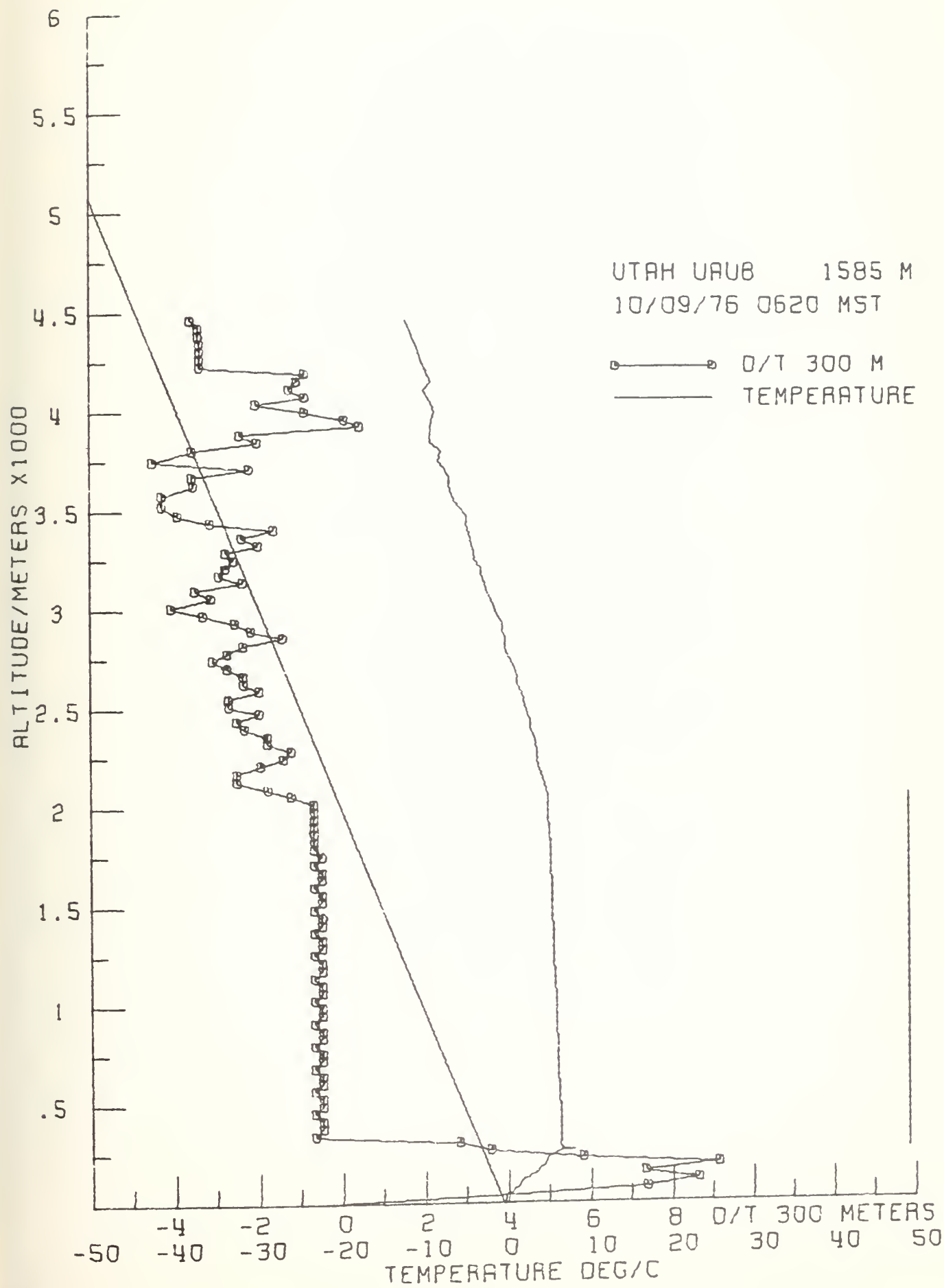




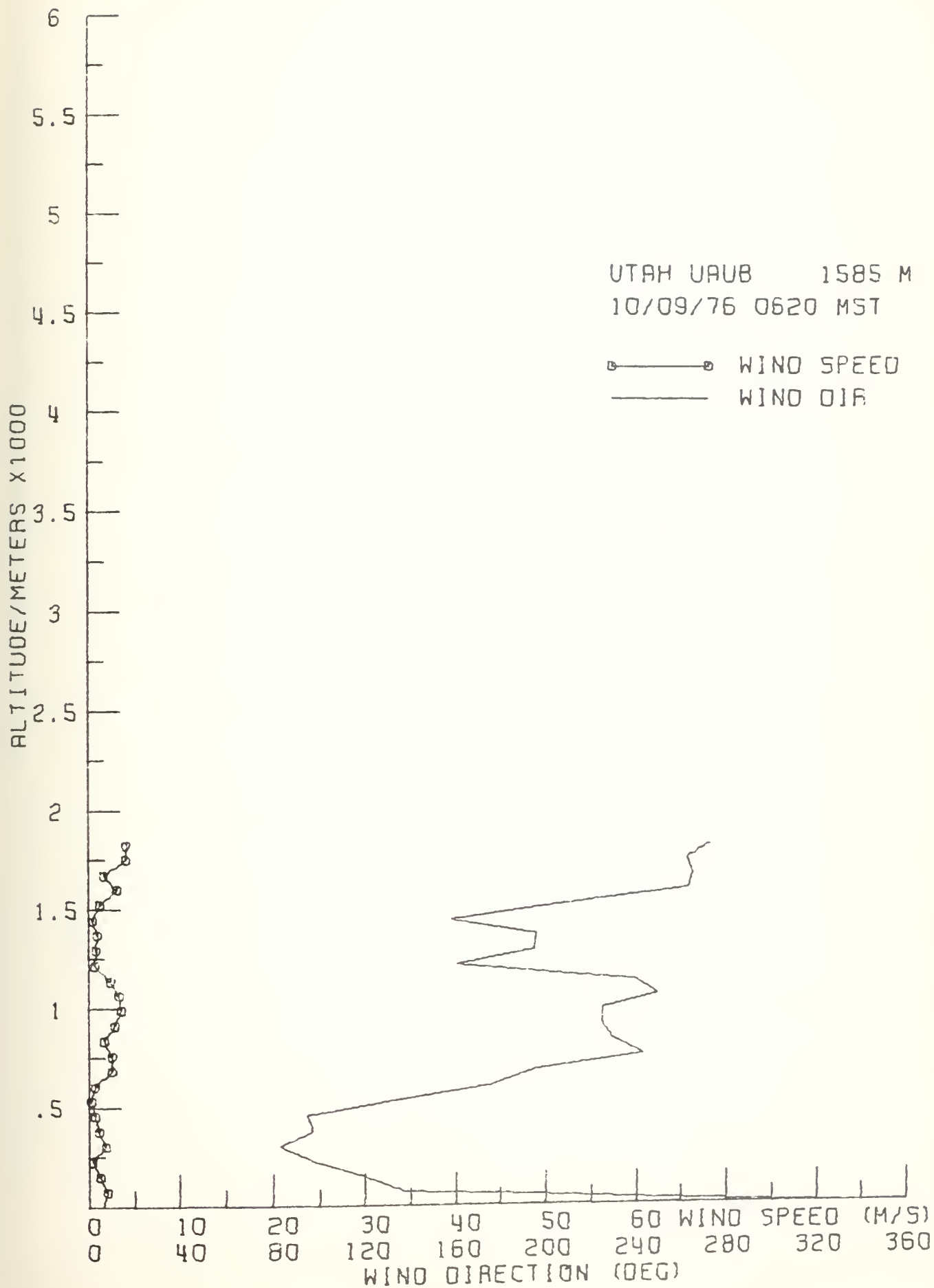
① ————— ② WIND SPEED
————— WIND DIR



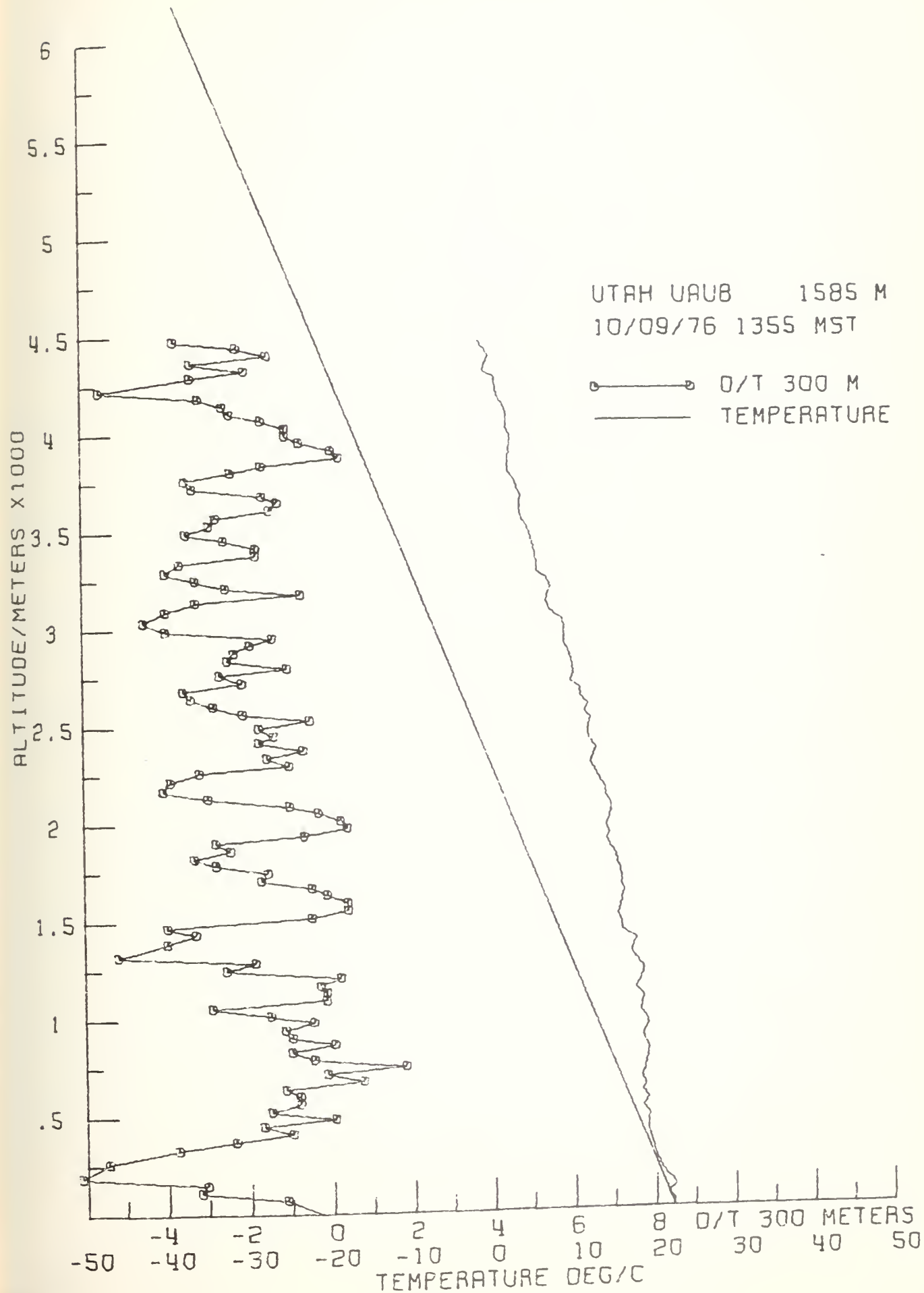




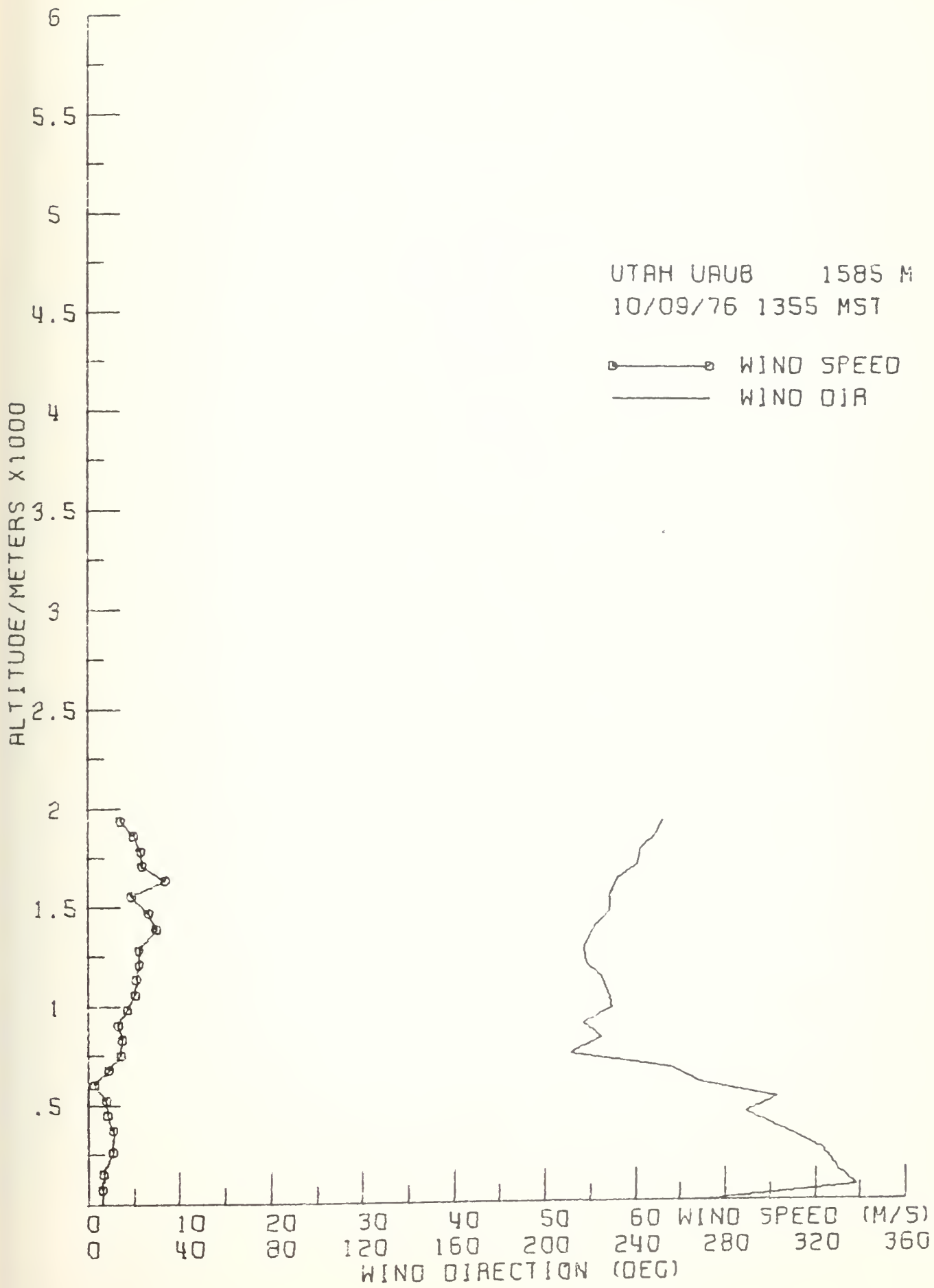


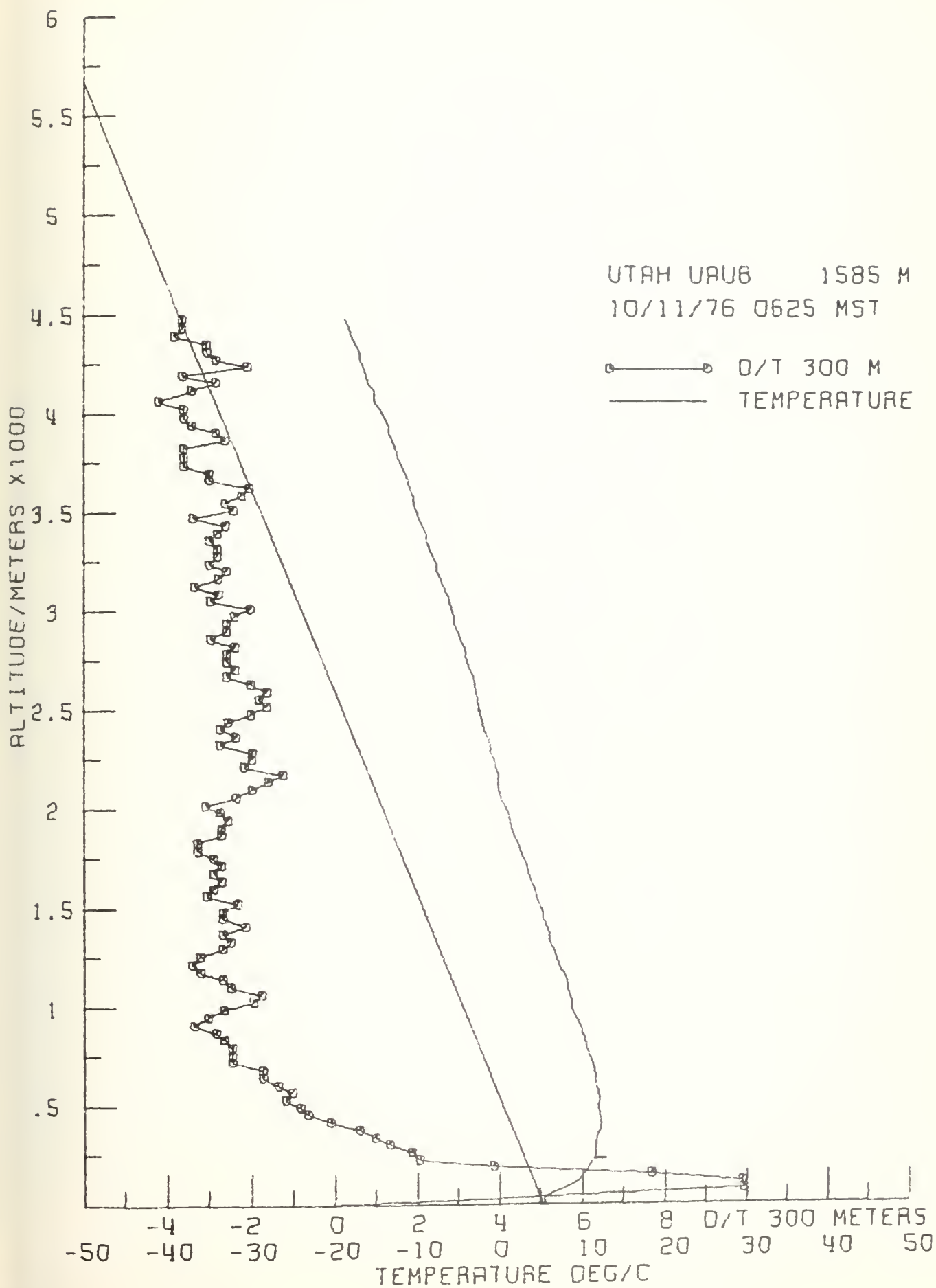


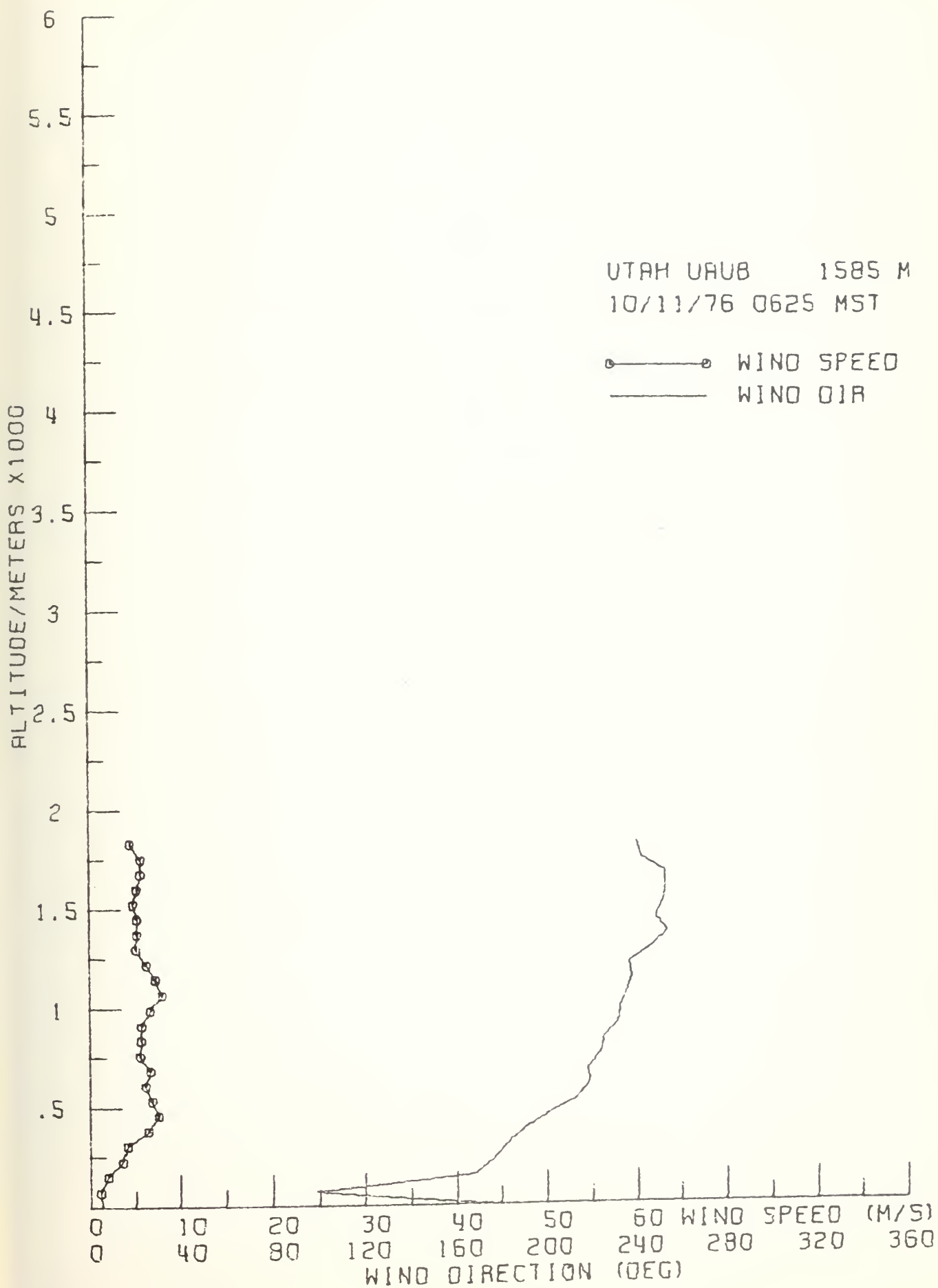




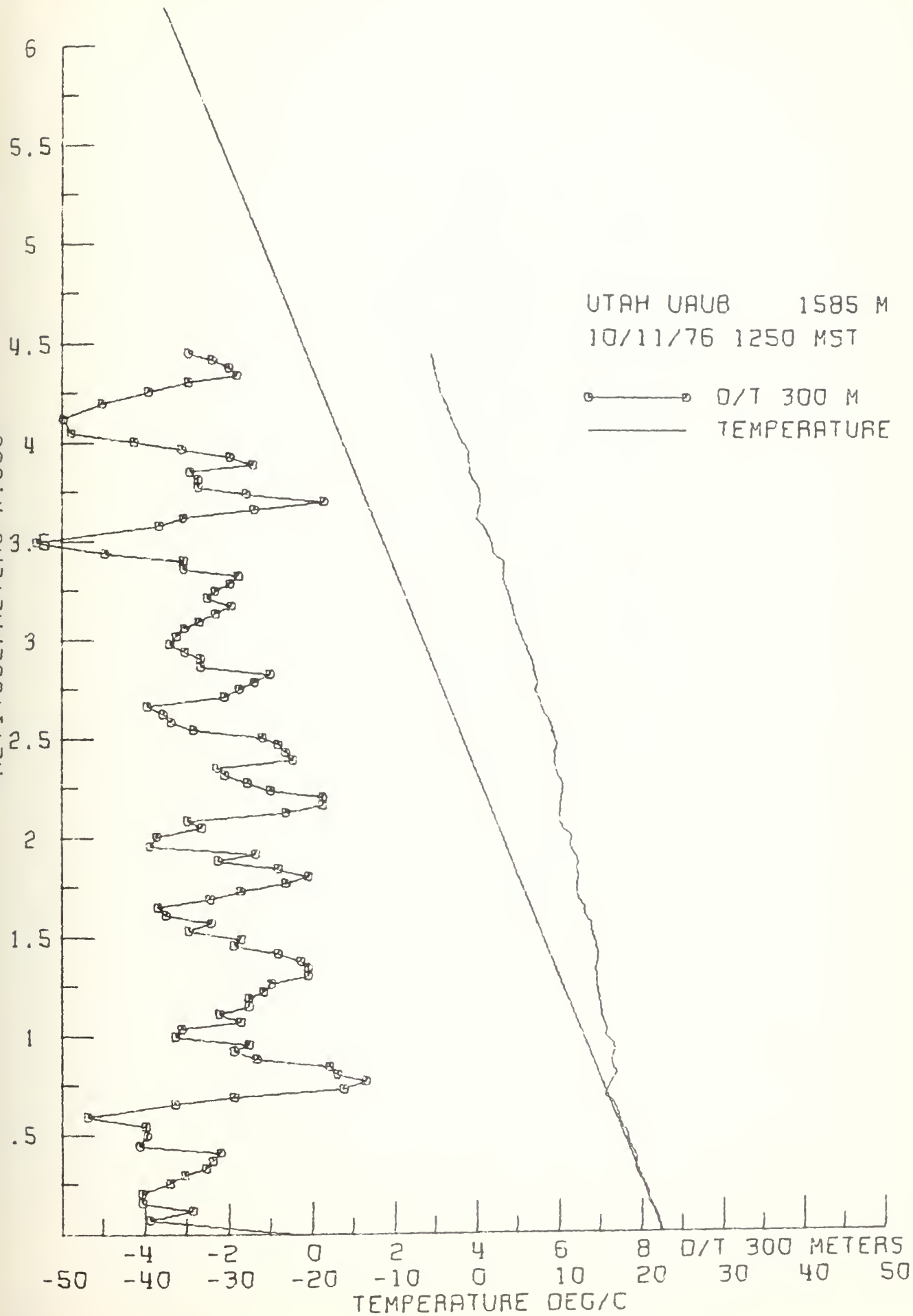


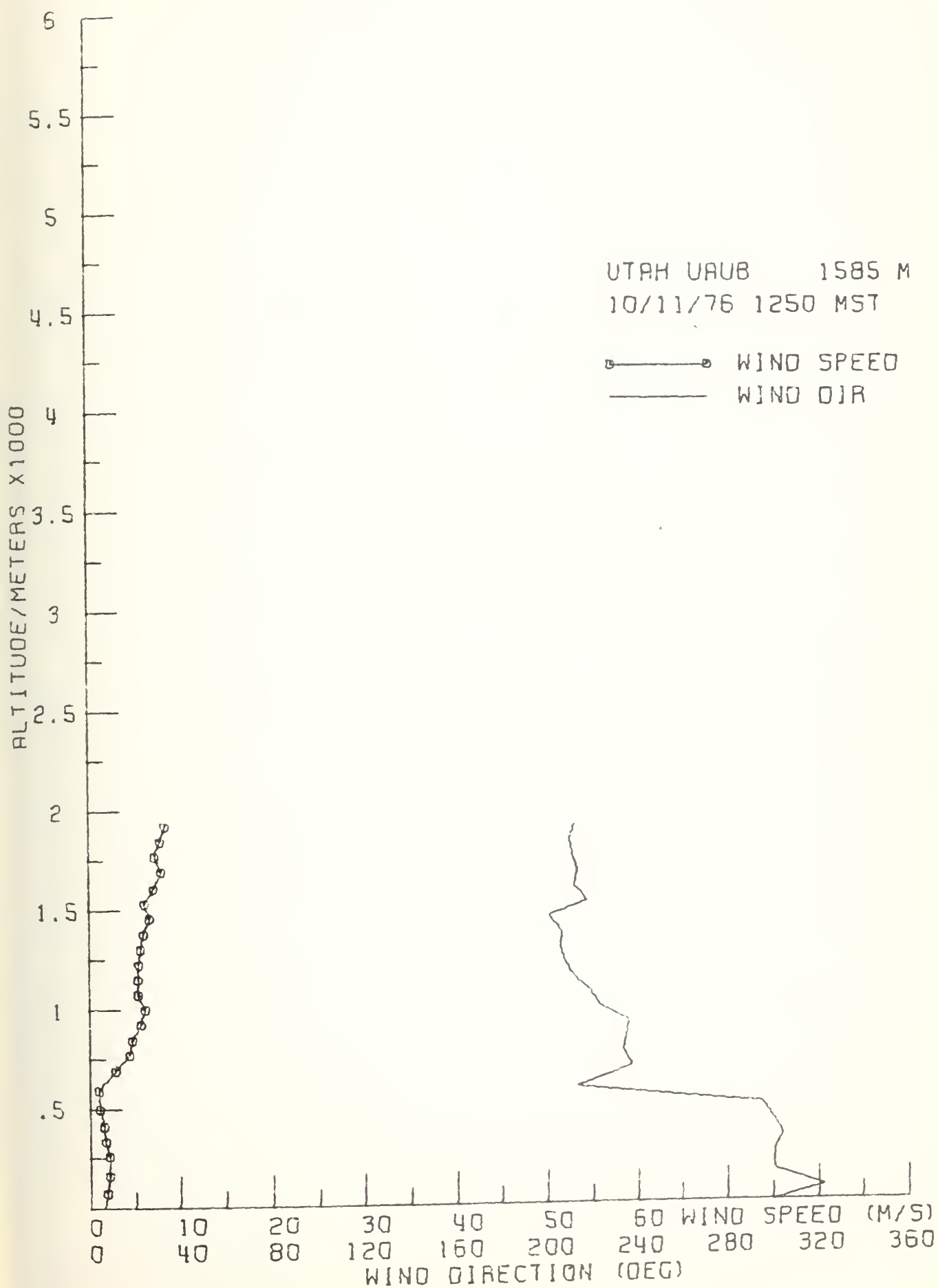


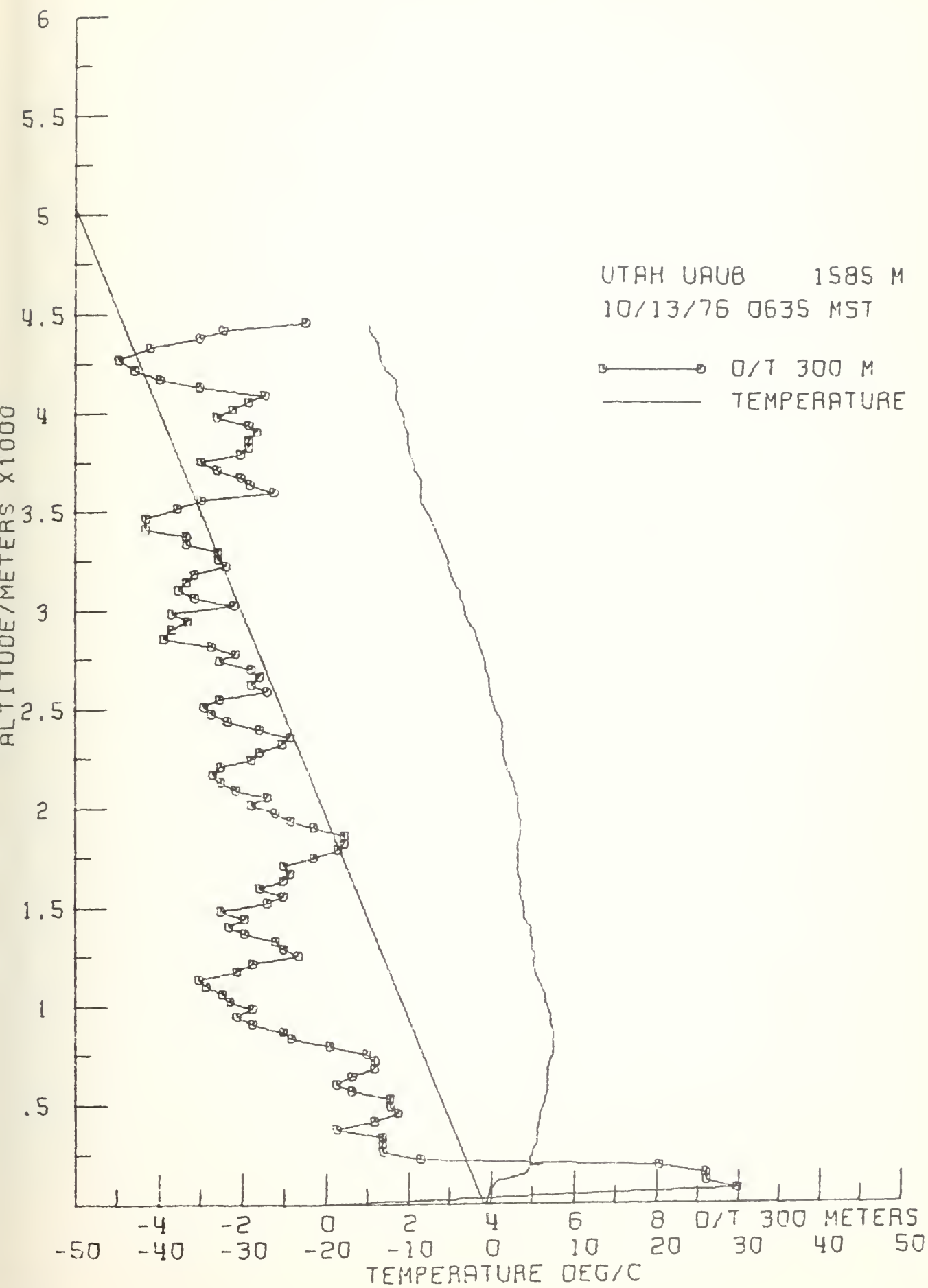


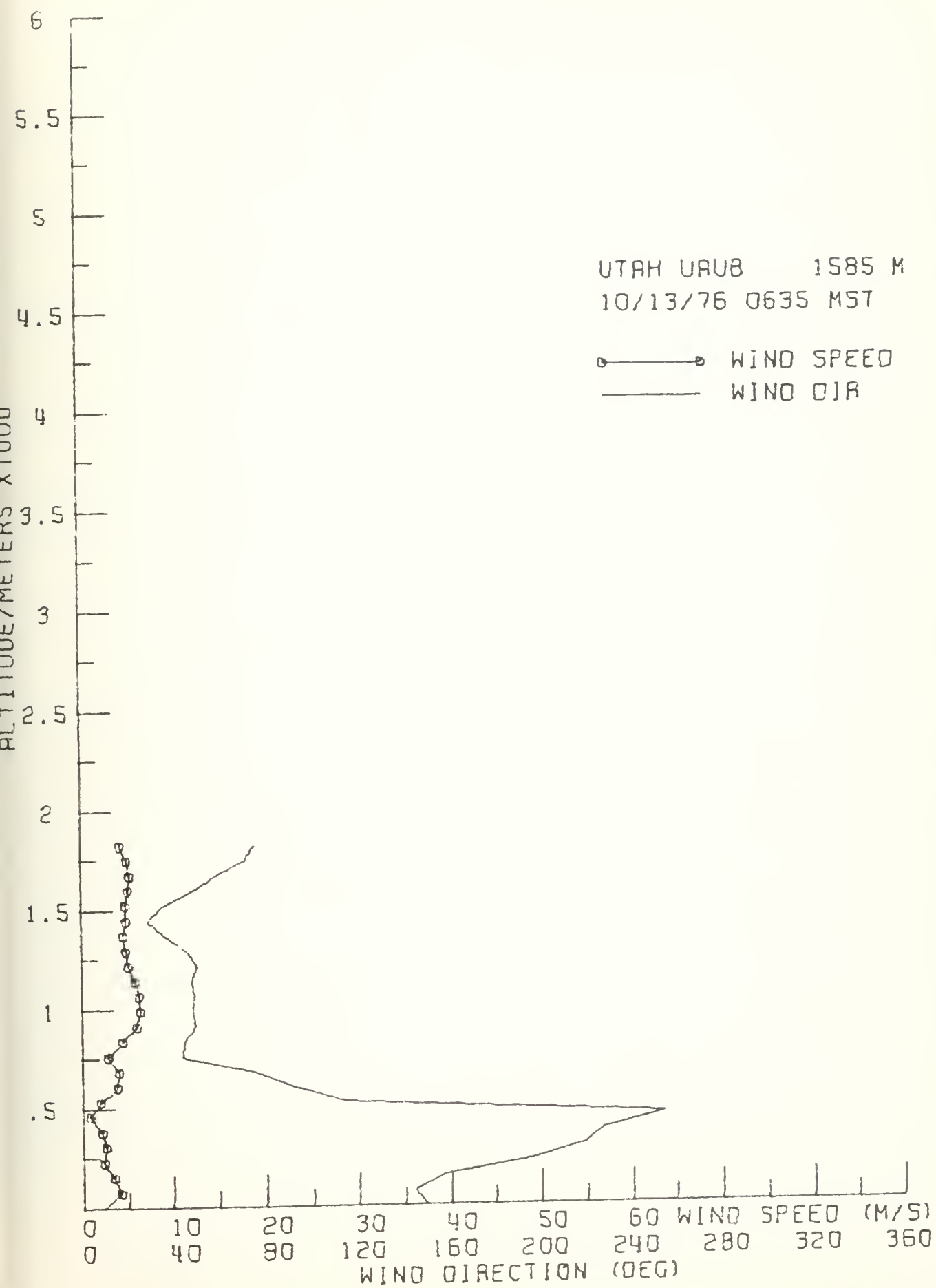


ALTITUDE/METERS X1000

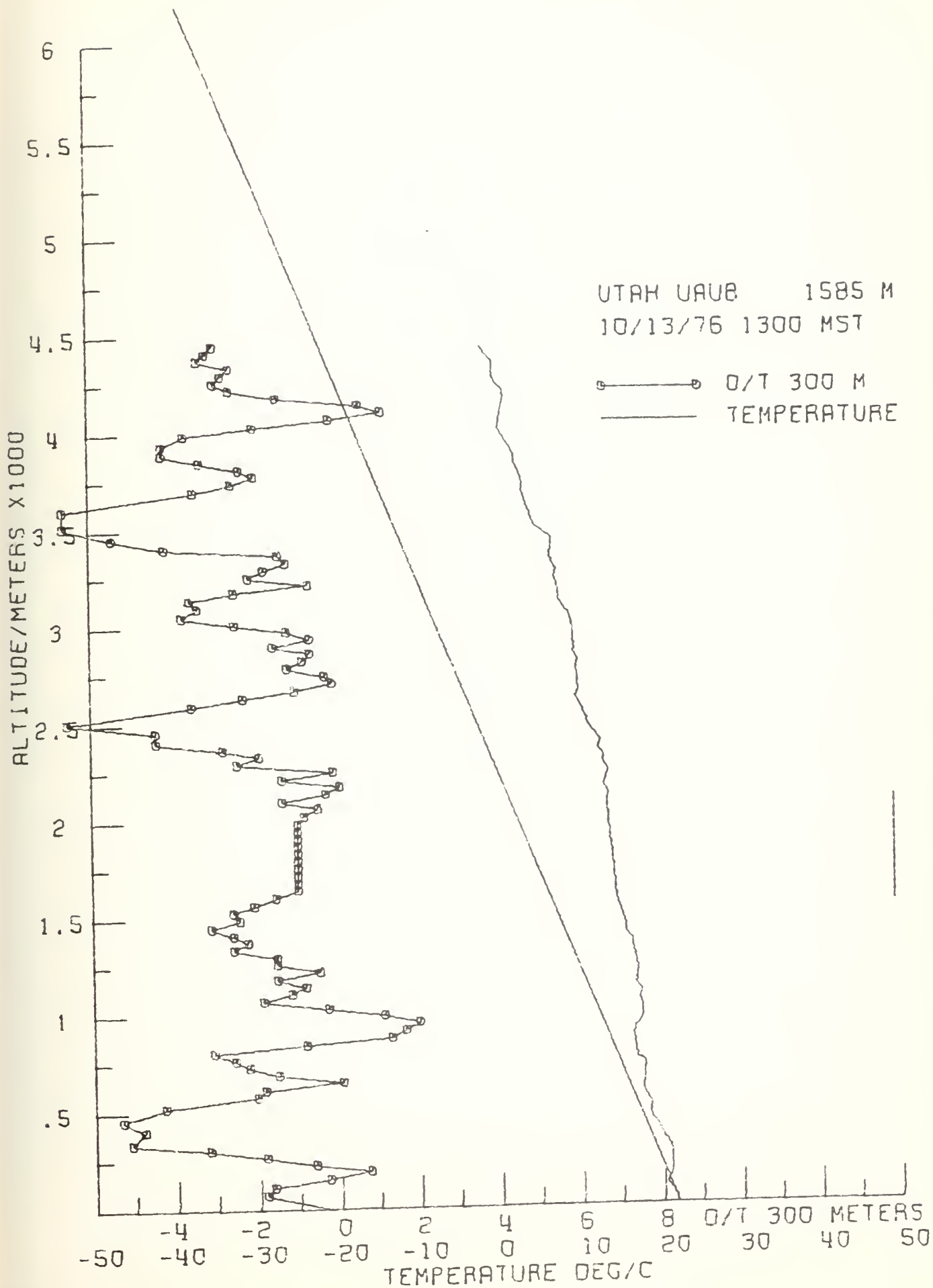


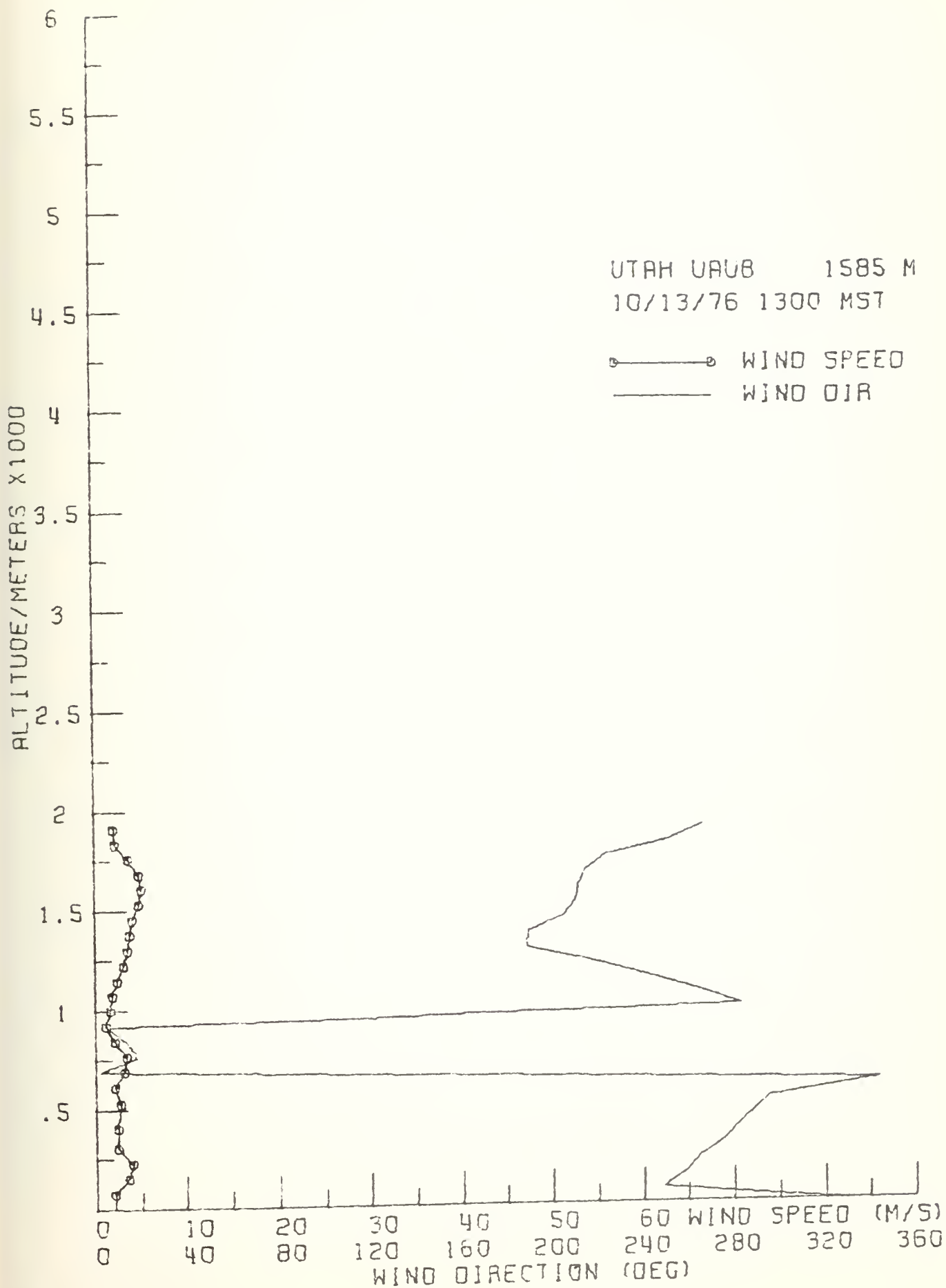




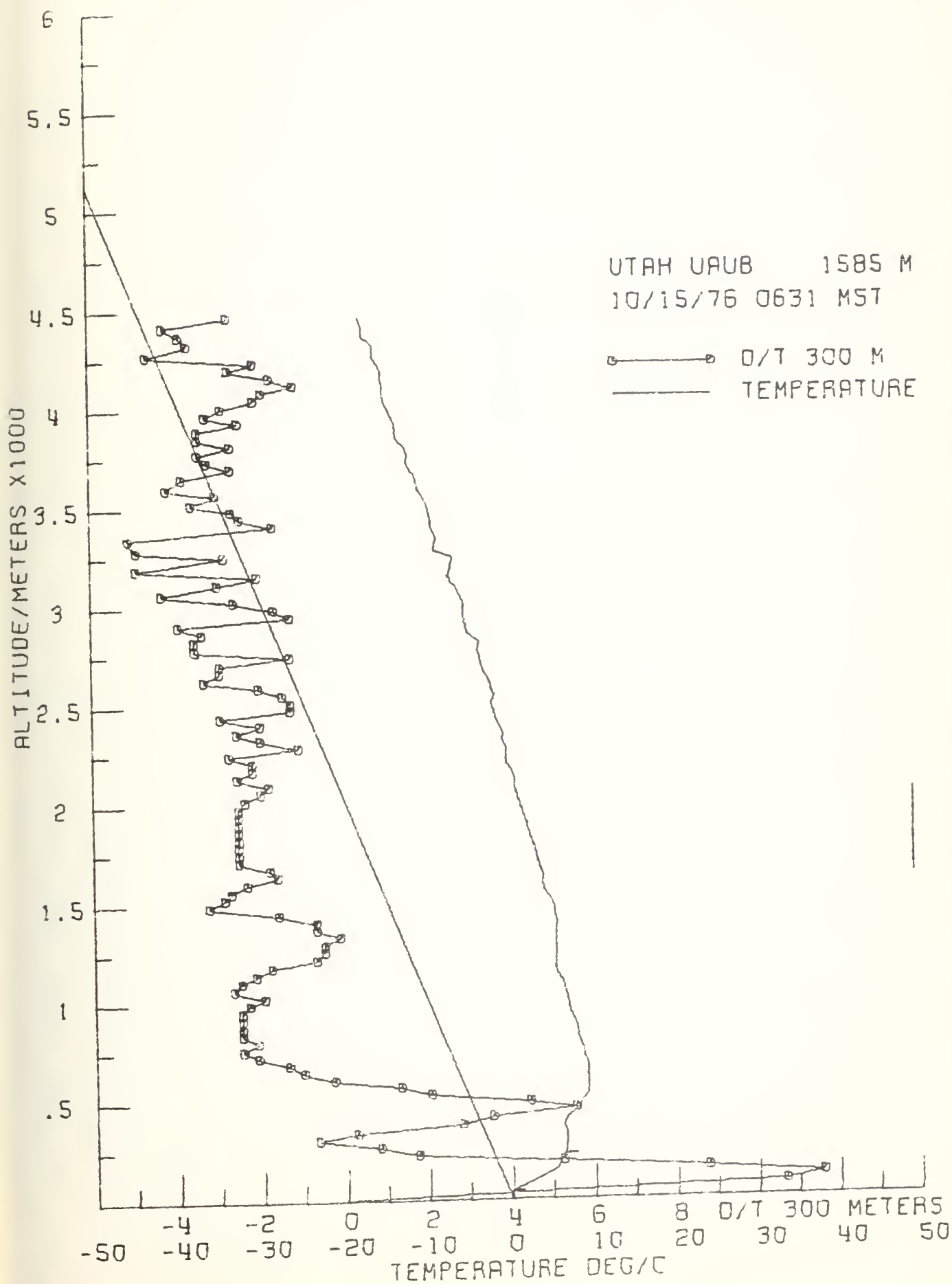




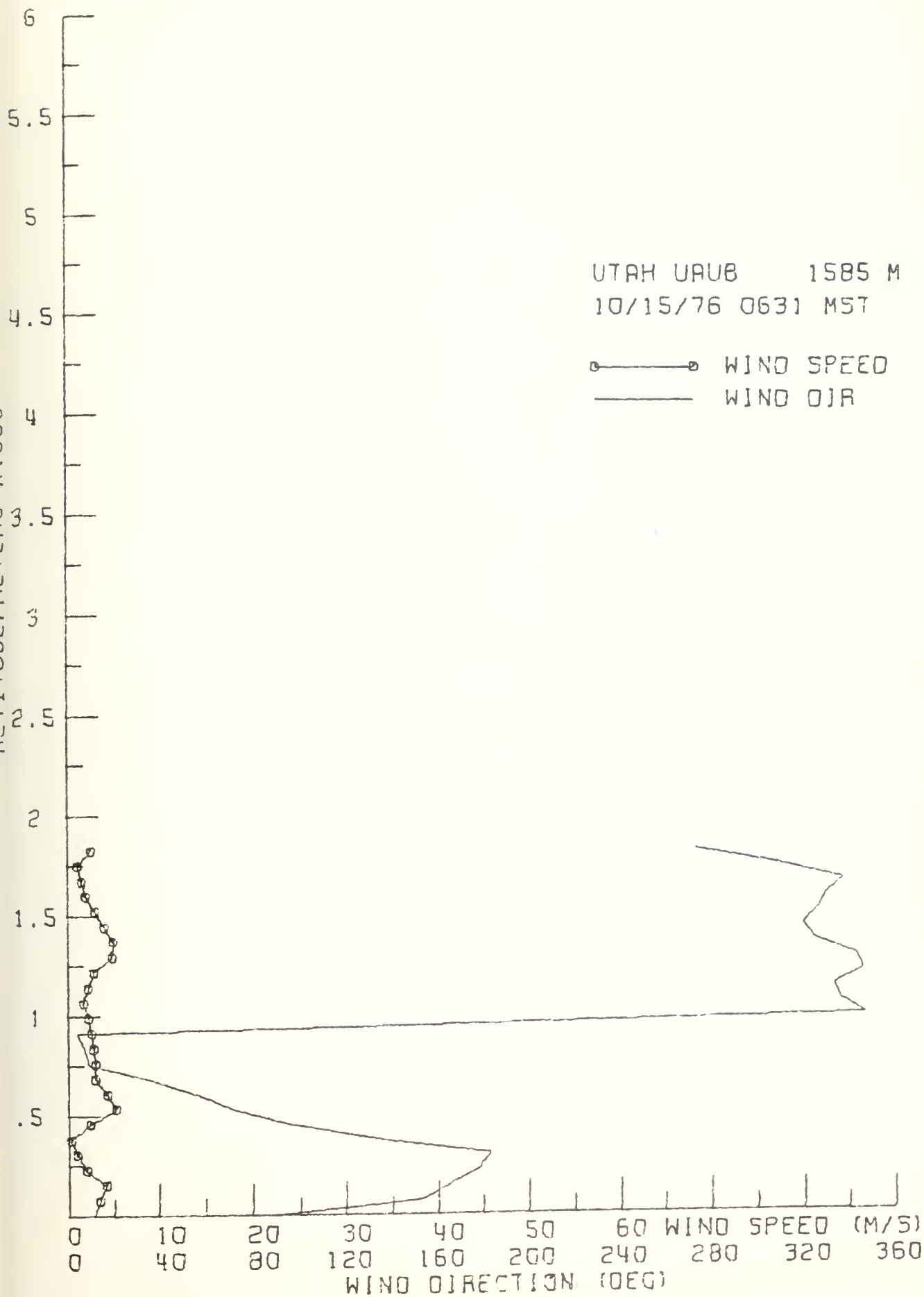




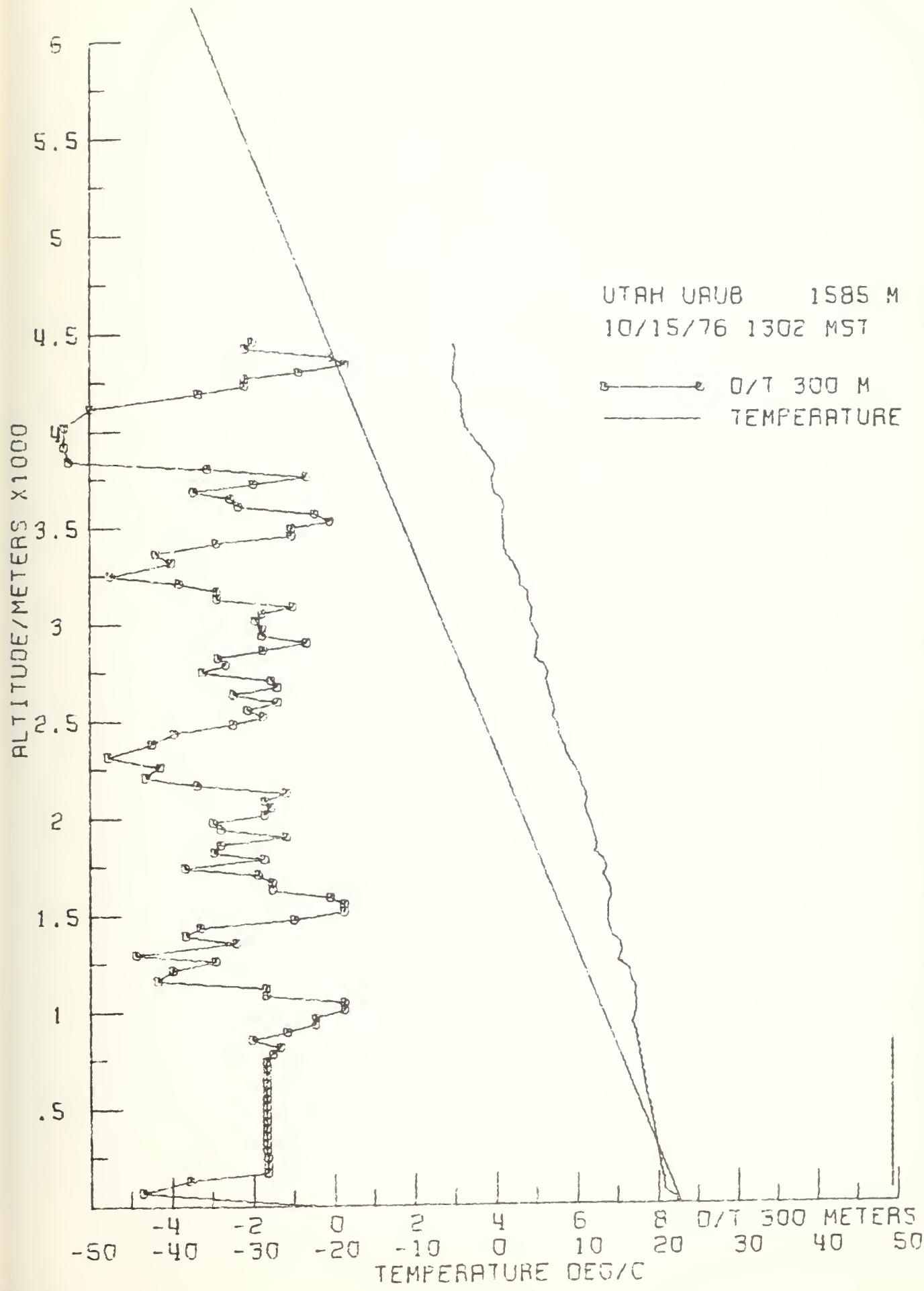




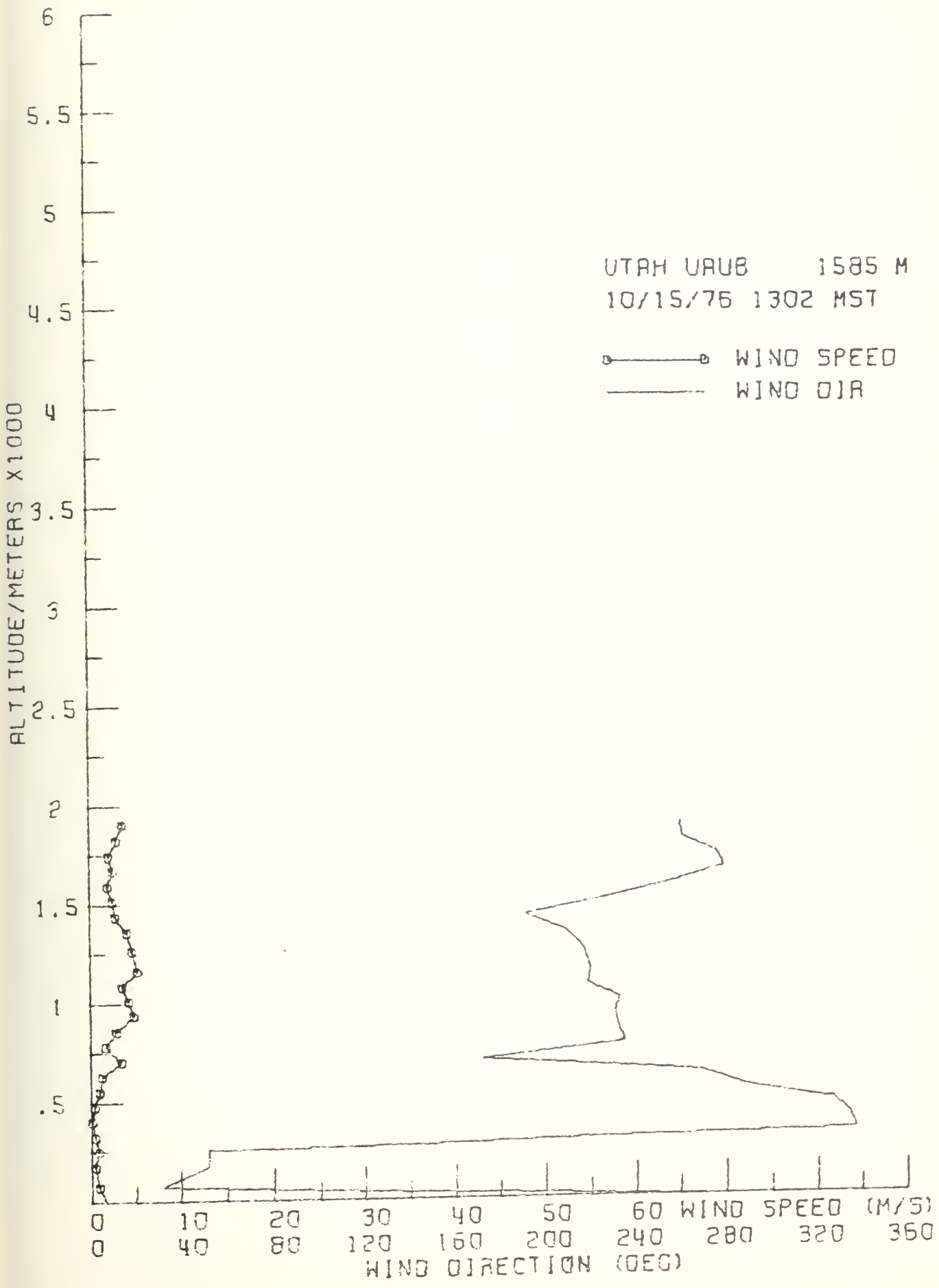
ALTITUDE/METERS X1000



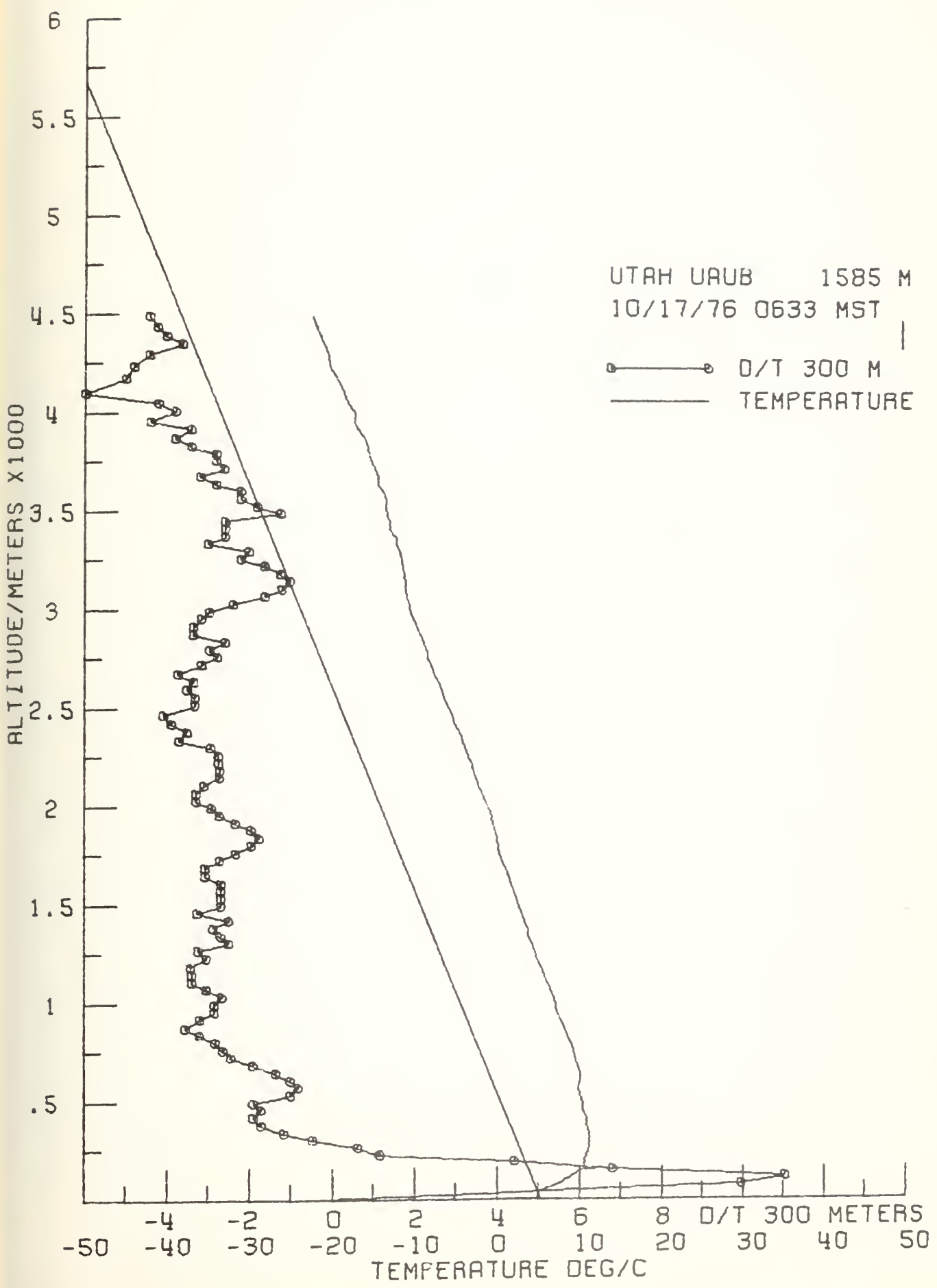


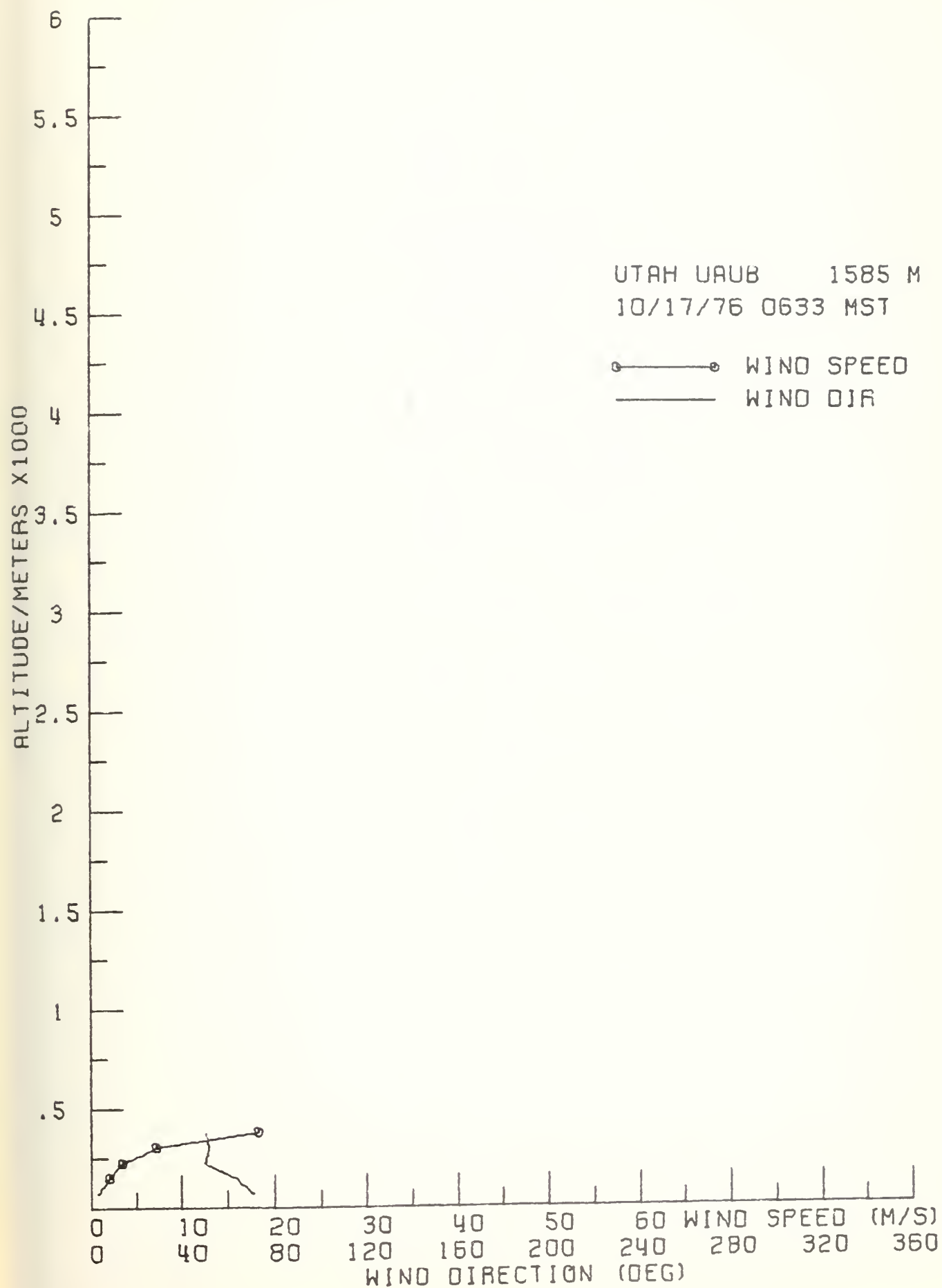




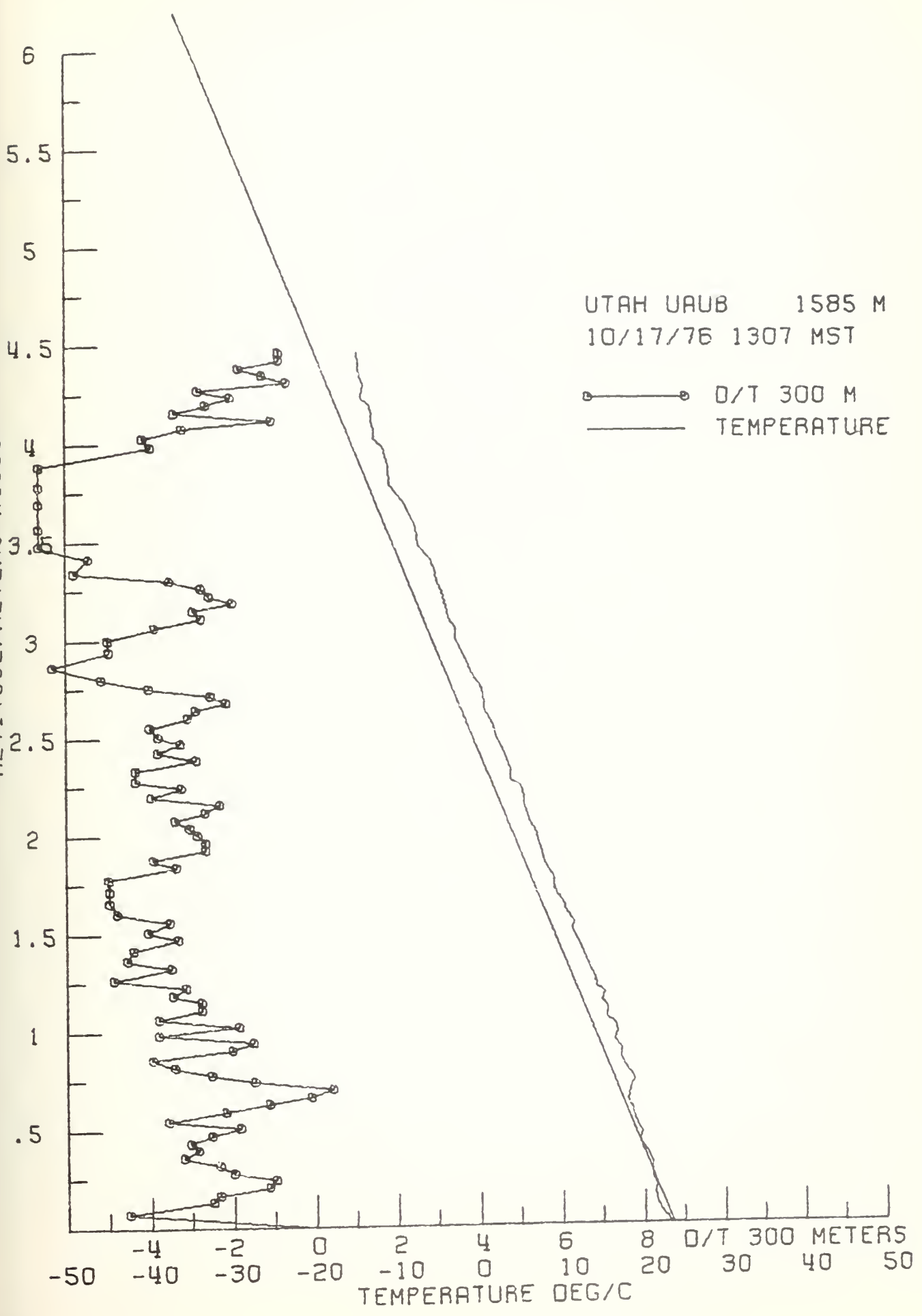




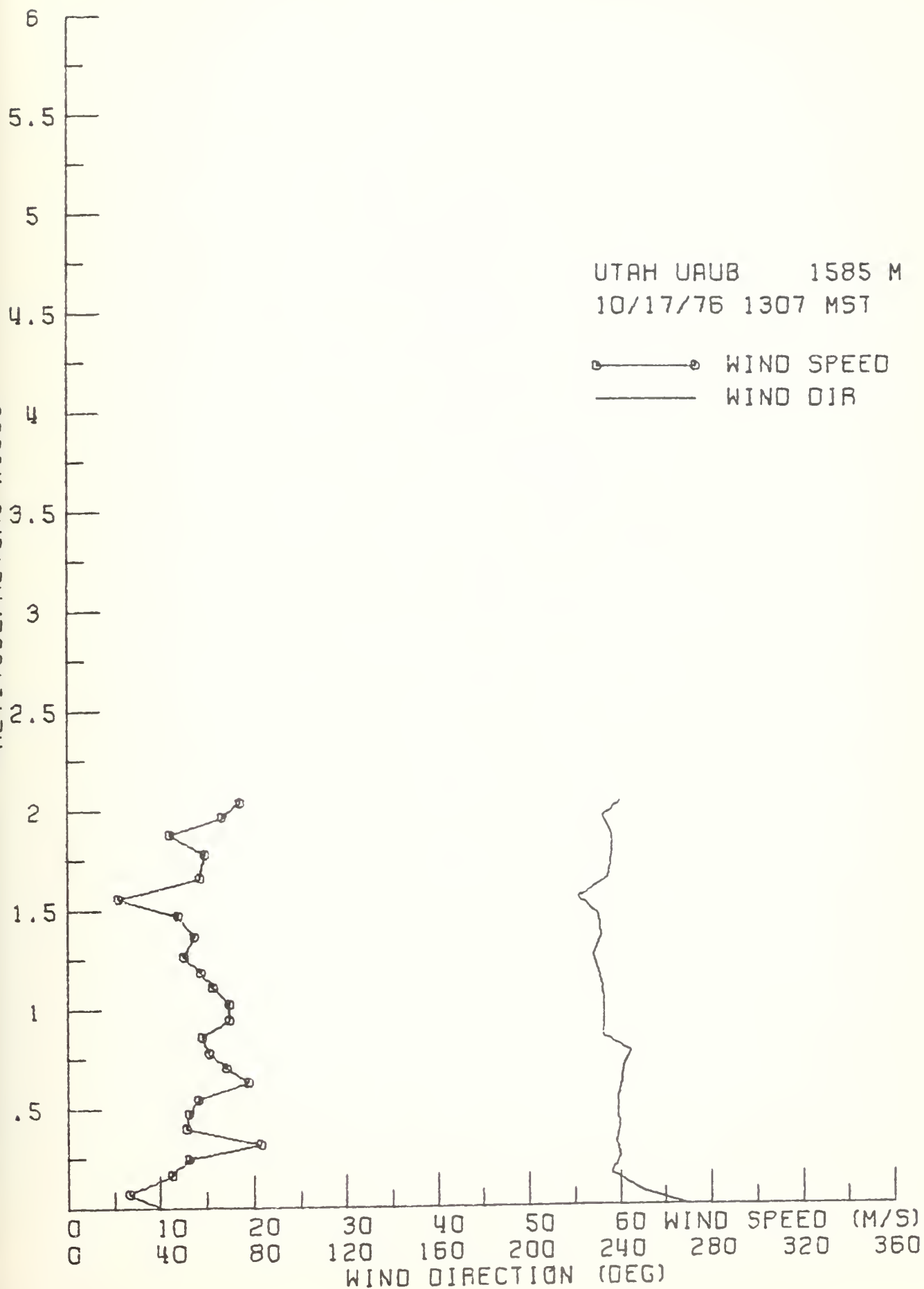




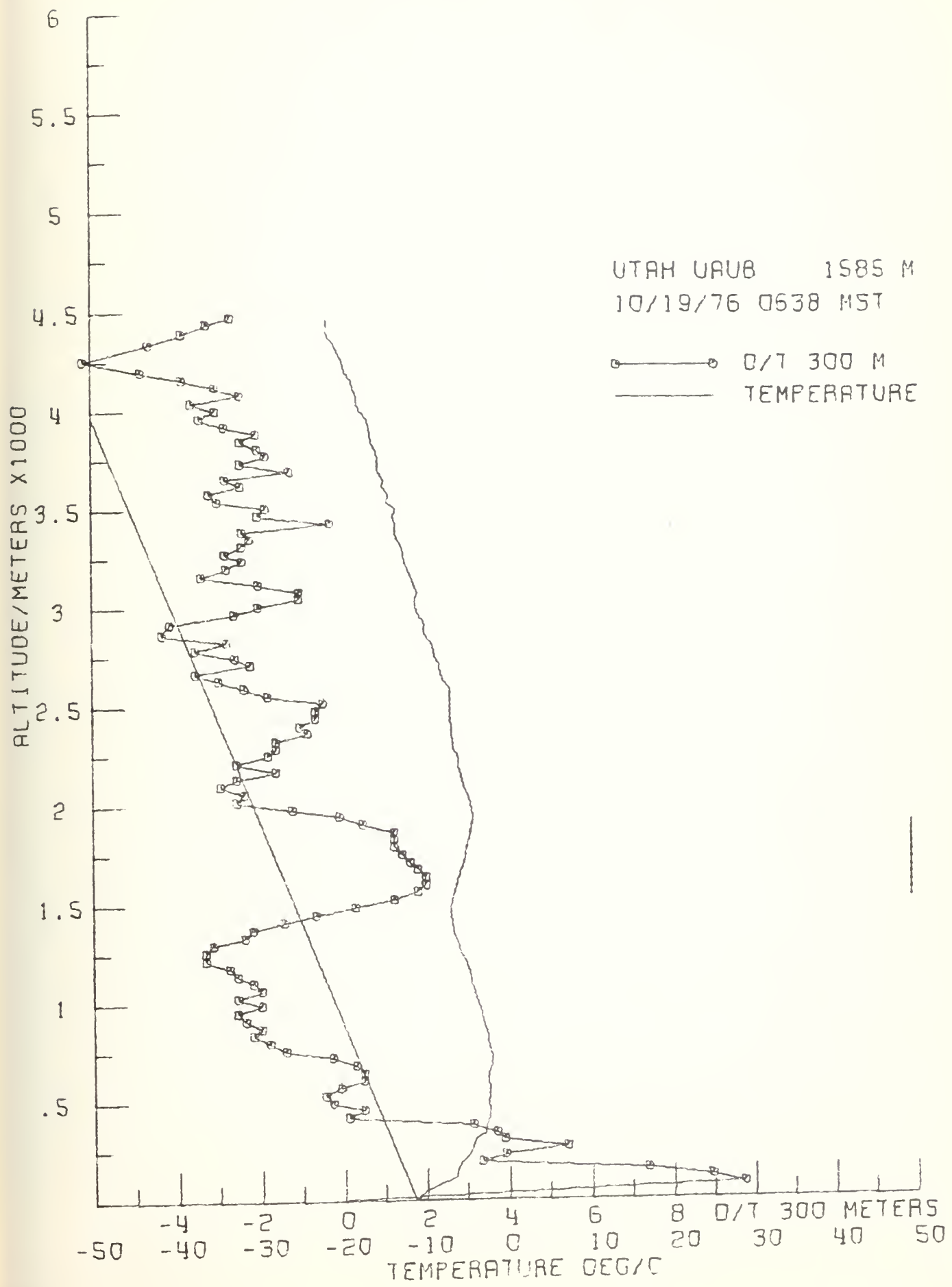
ALTITUDE/METERS X1000



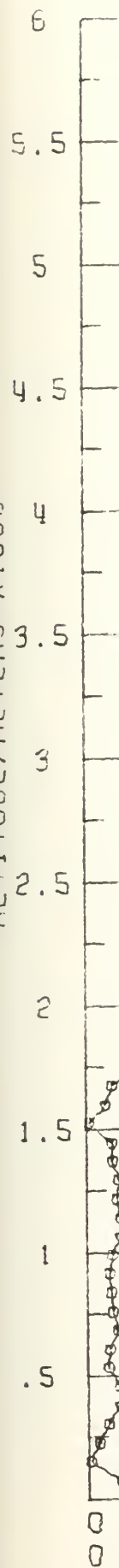
ALTITUDE/METERS X1000







ALTITUDE/METERS X1000

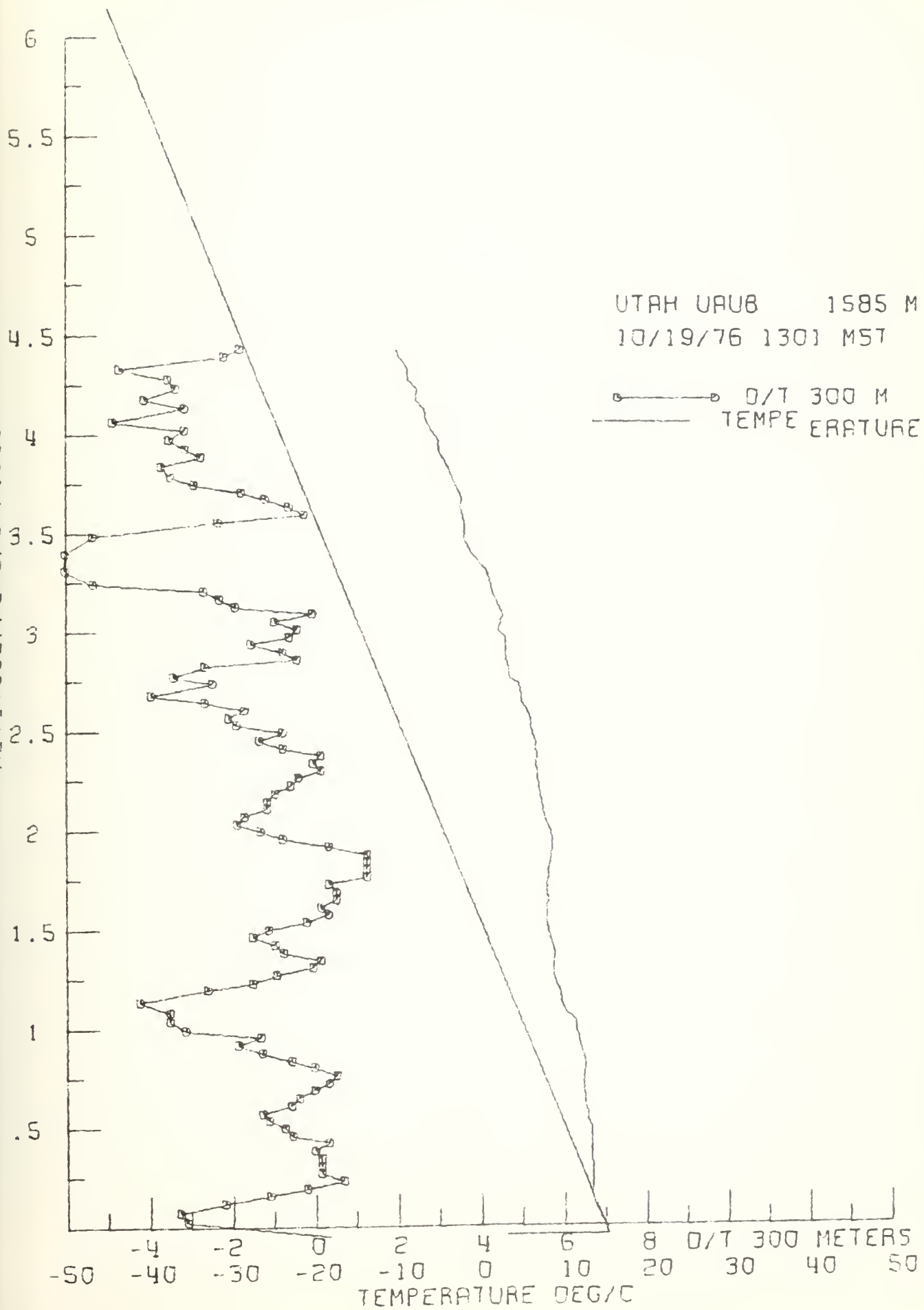


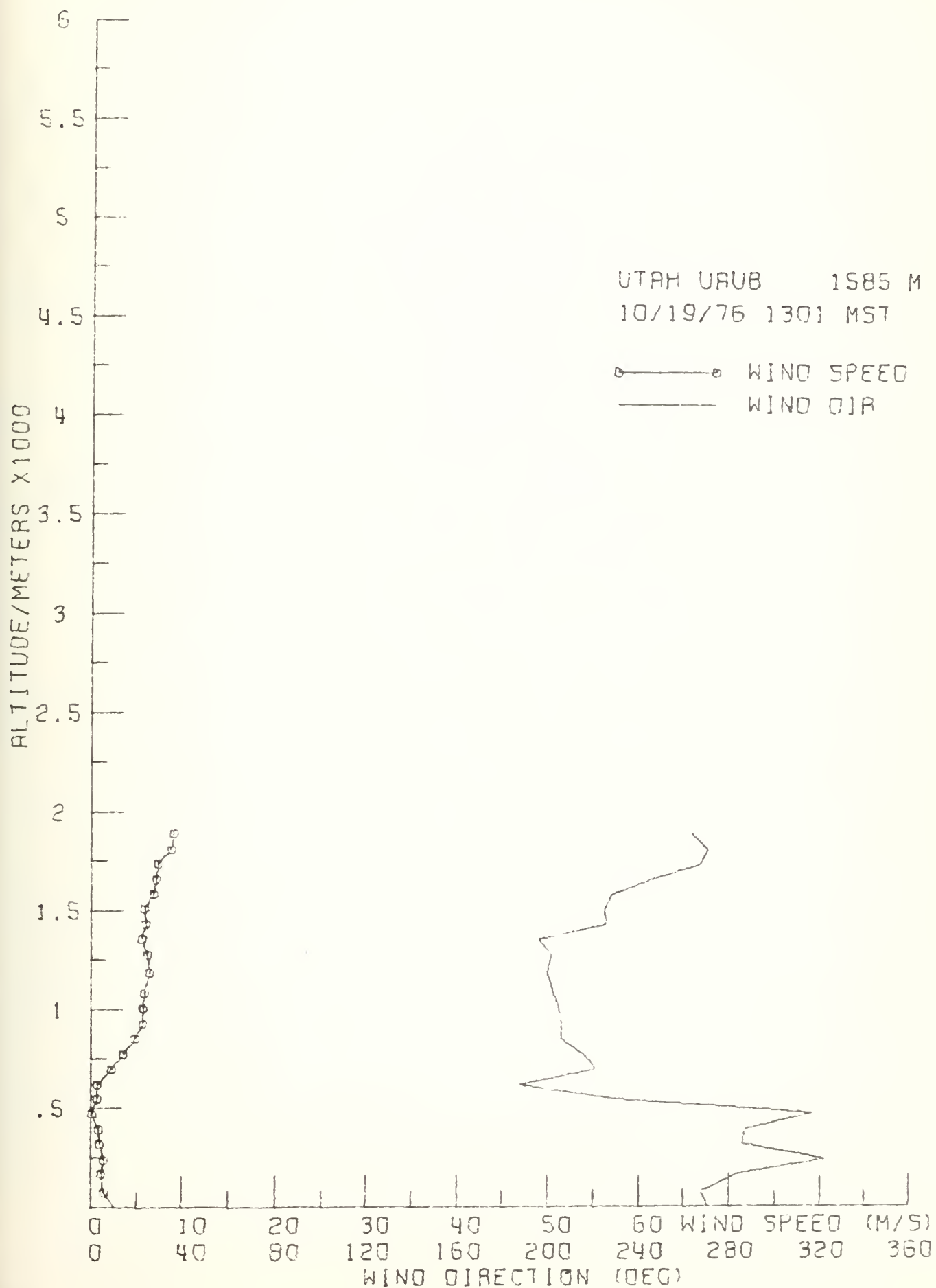
UTAH URB 1585 M
10/19/76 0638 MST

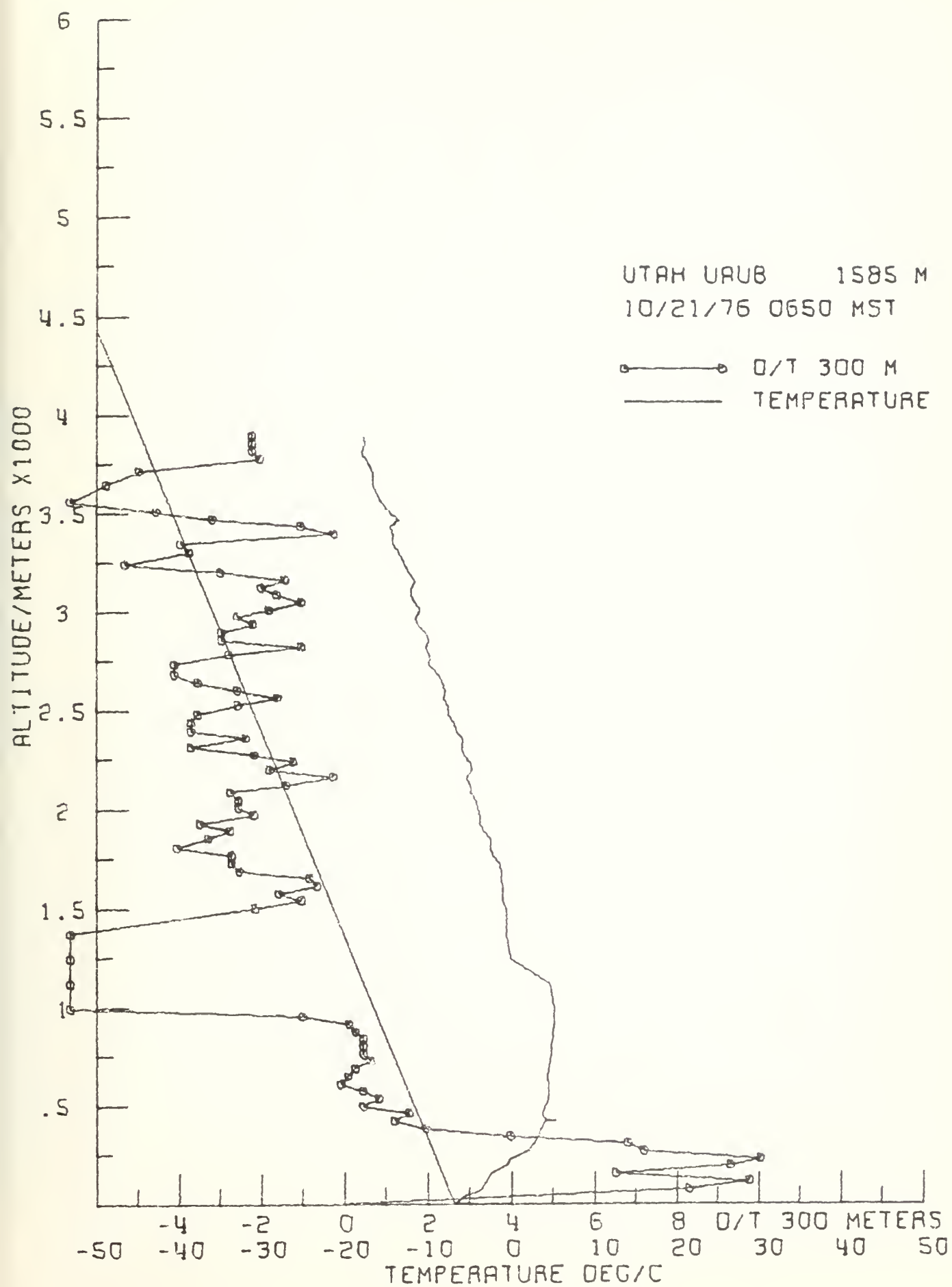
WIND SPEED
WIND DIR

0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

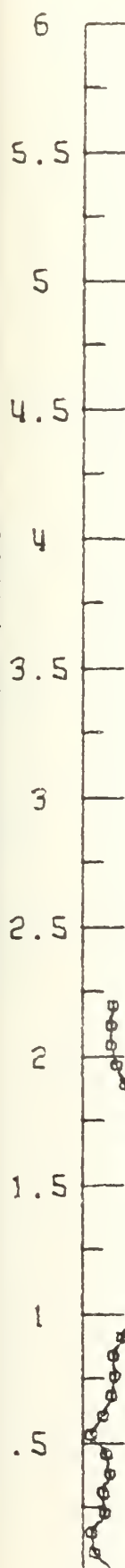
ALTITUDE/METERS X1000







ALTITUDE/METERS X1000

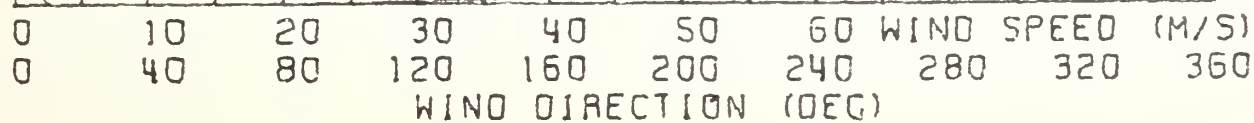


UTAH UAUB 1585 M

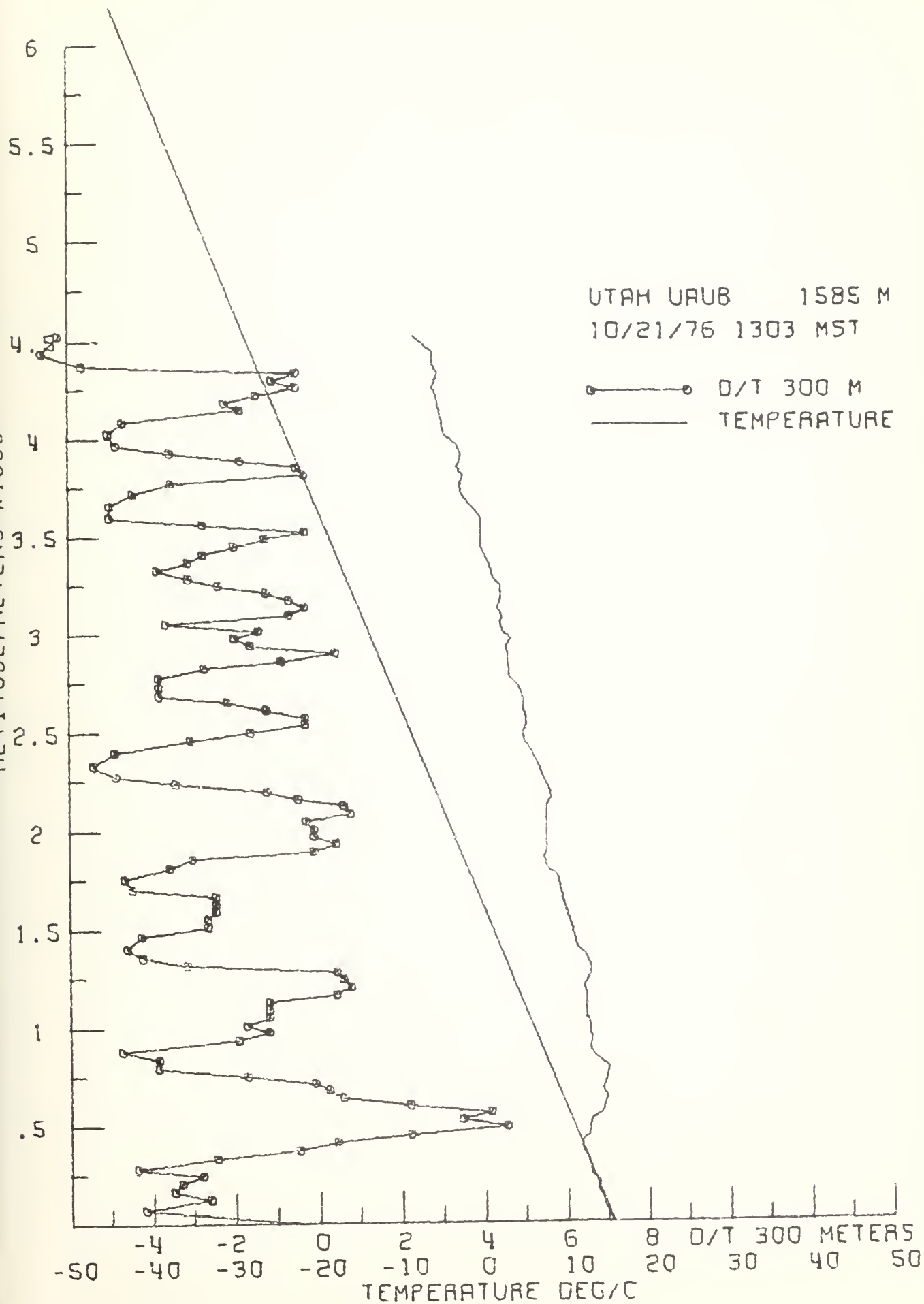
10/21/76 0650 MST

WIND SPEED

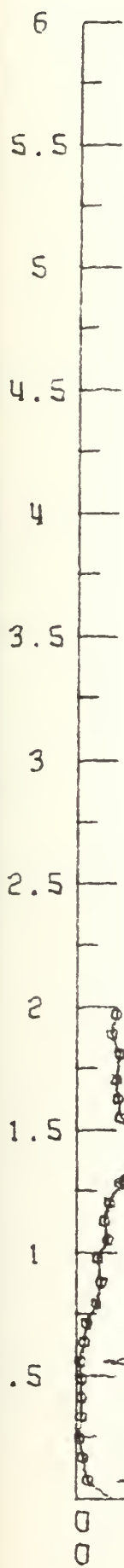
WIND DIR



ALTITUDE/METERS X1000

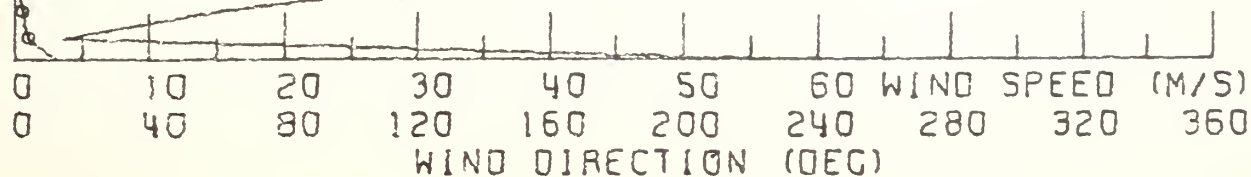


ALTITUDE/METERS X1000

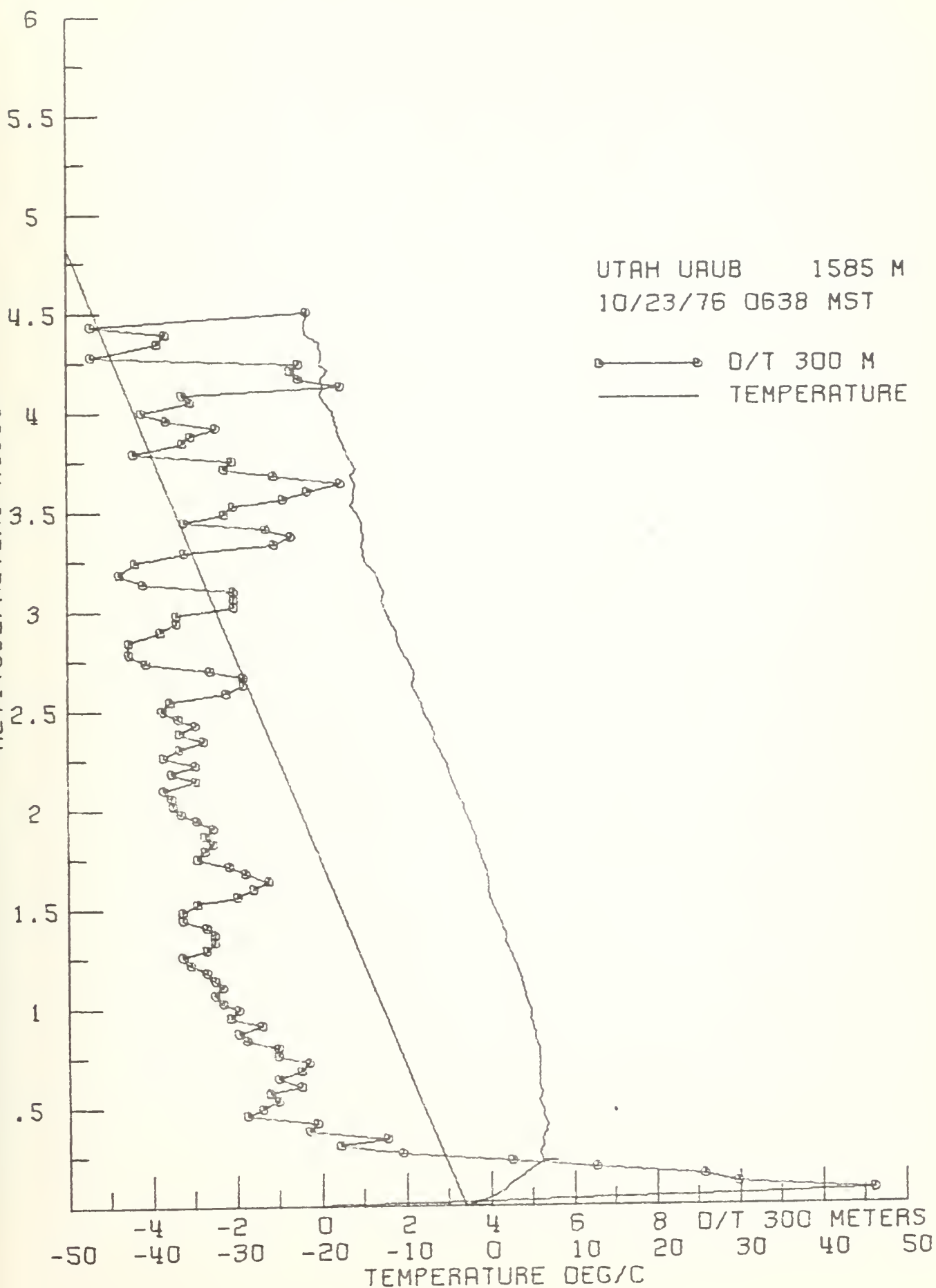


UTAH LAUB 1585 M
10/21/76 1303 MST

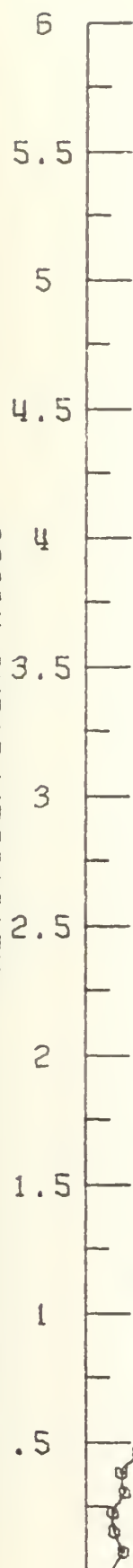
—○— WIND SPEED
— WIND DIR



ALTITUDE/METERS X1000

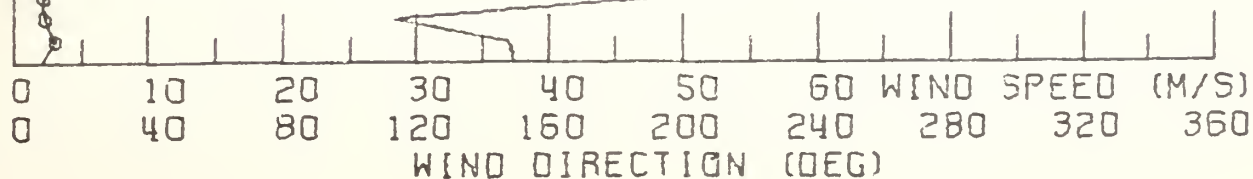


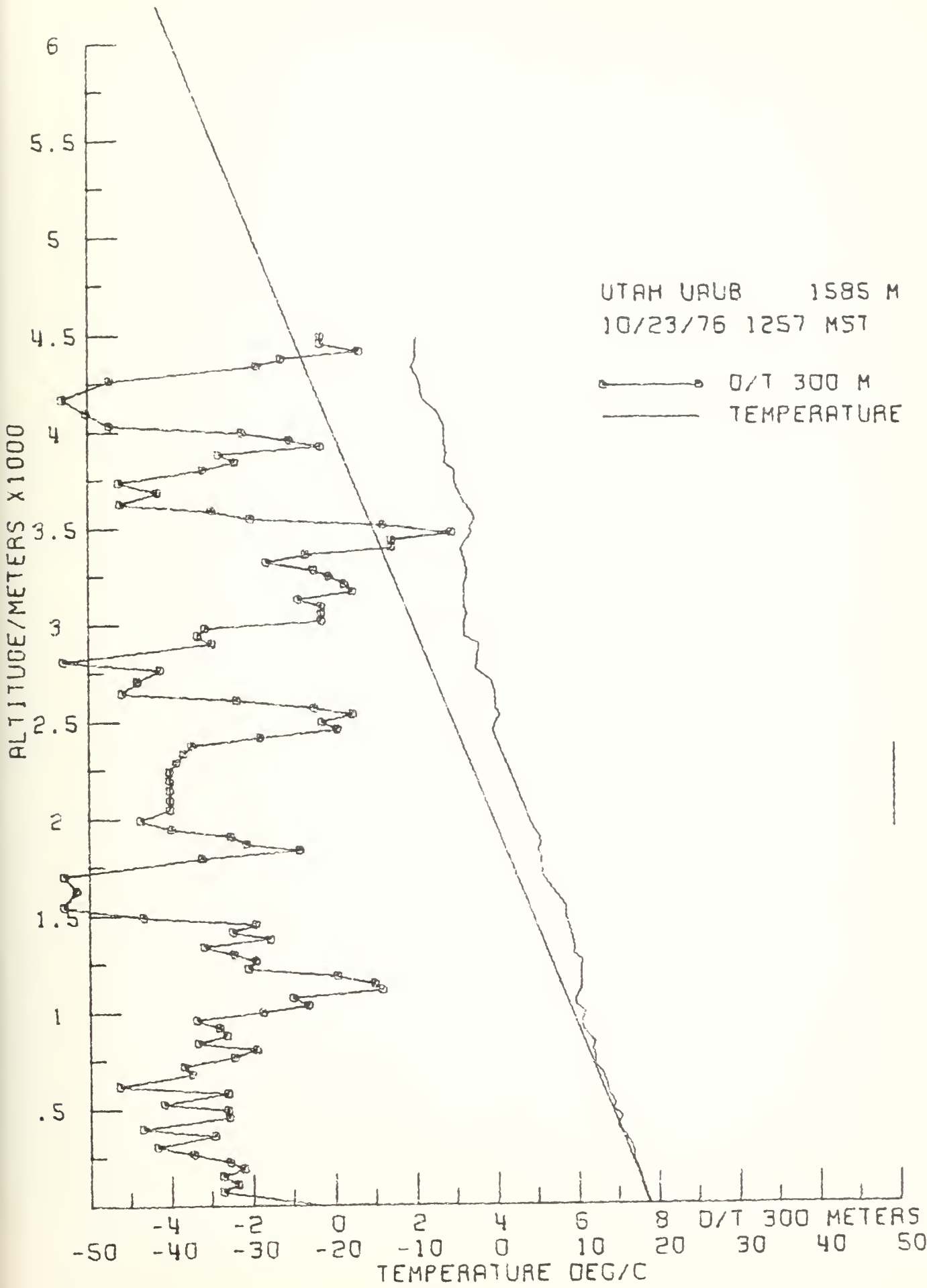
ALTITUDE/METERS X1000



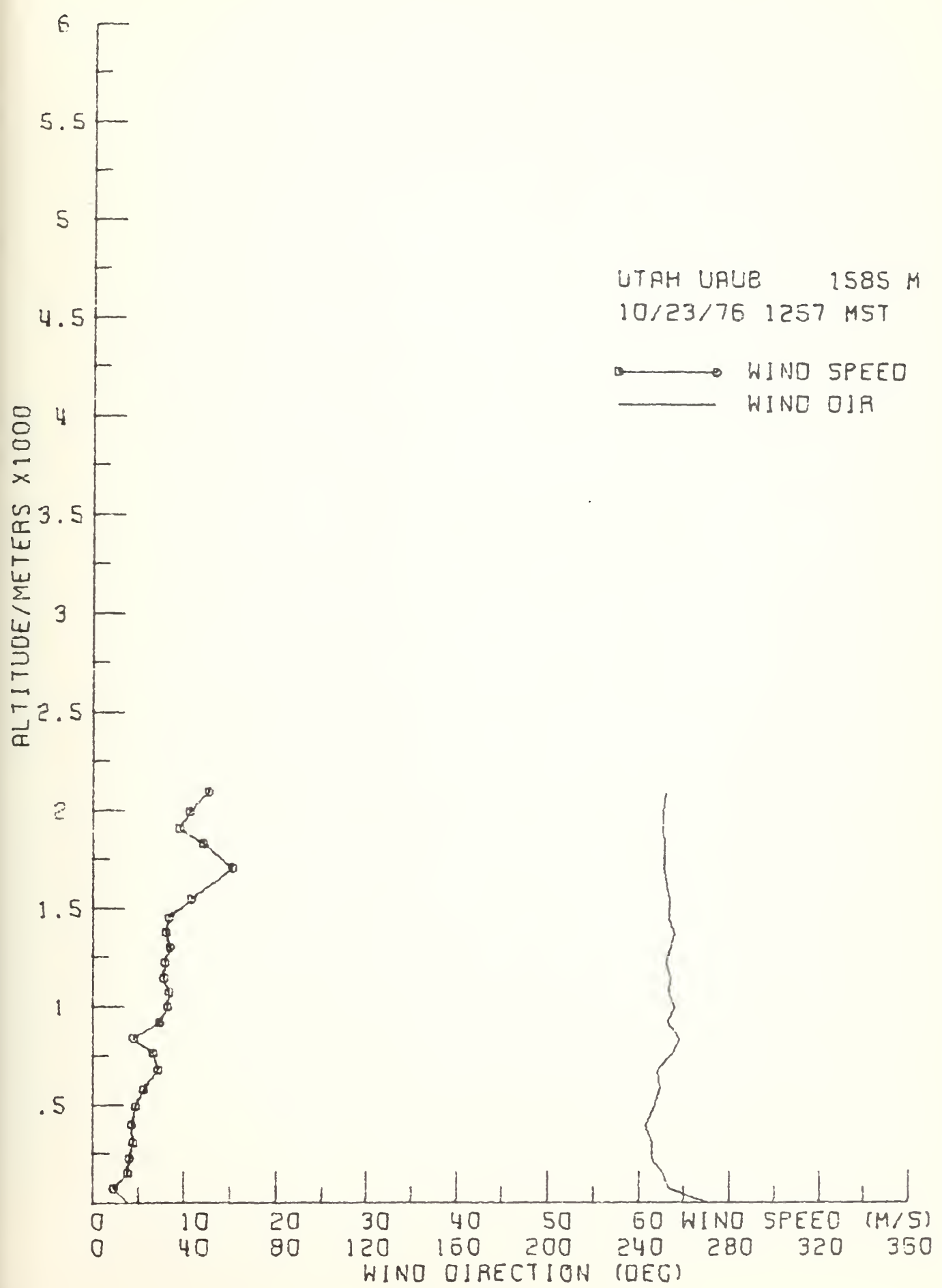
UTAH URUB 1585 M
10/23/76 0638 MST

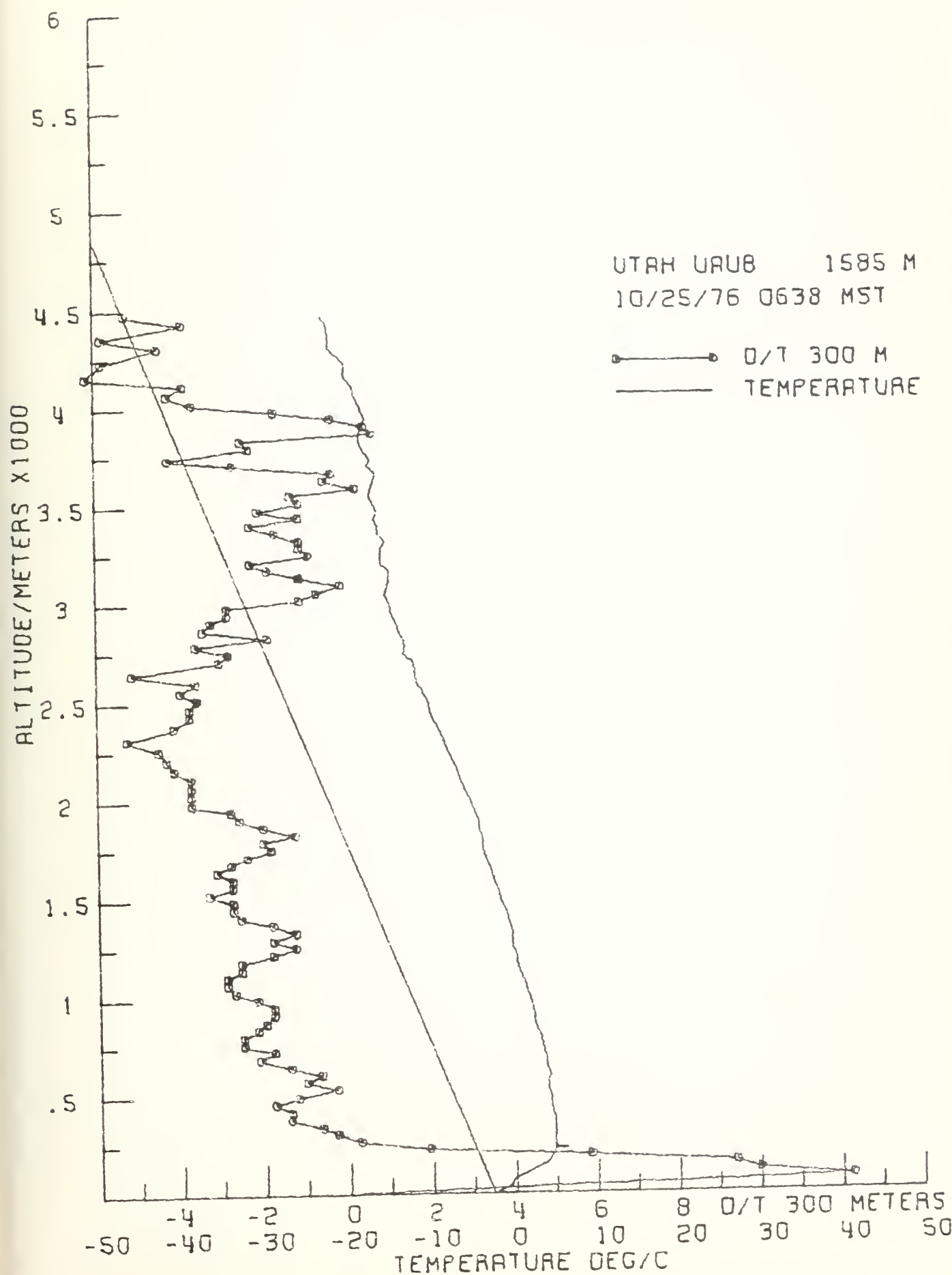
WIND SPEED
WIND DIR



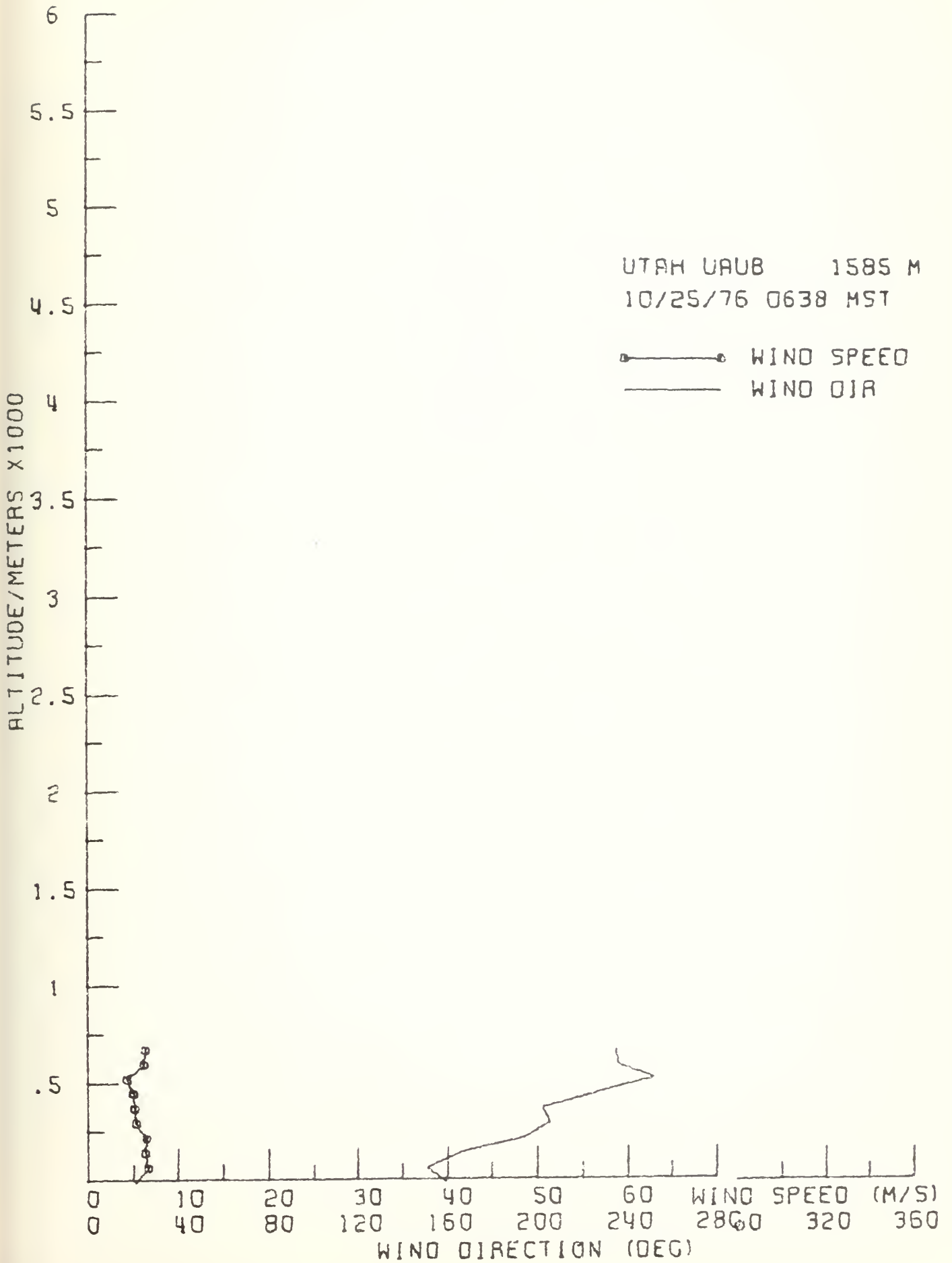


UTAH URUB 1585 M
10/23/76 1257 MST



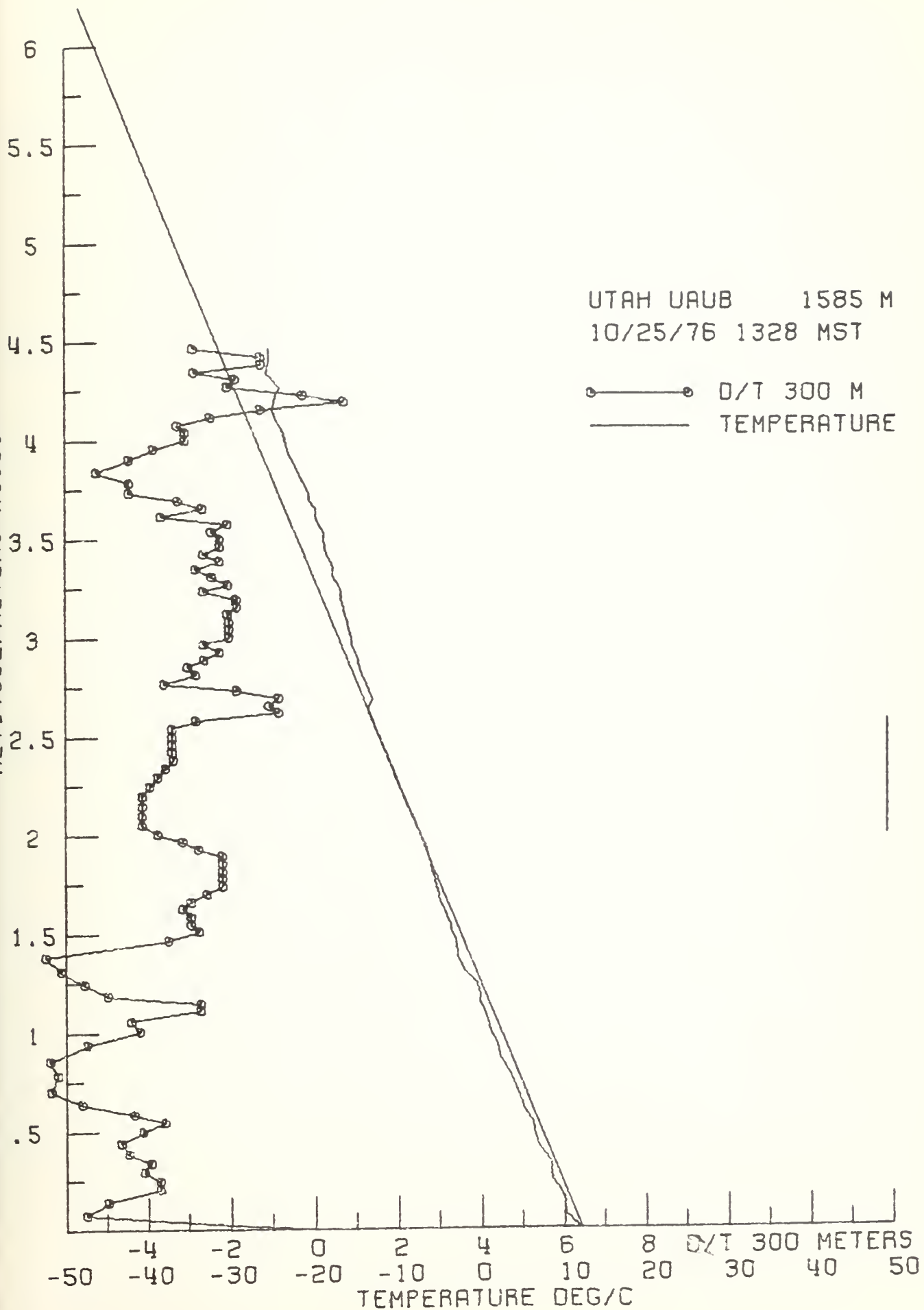




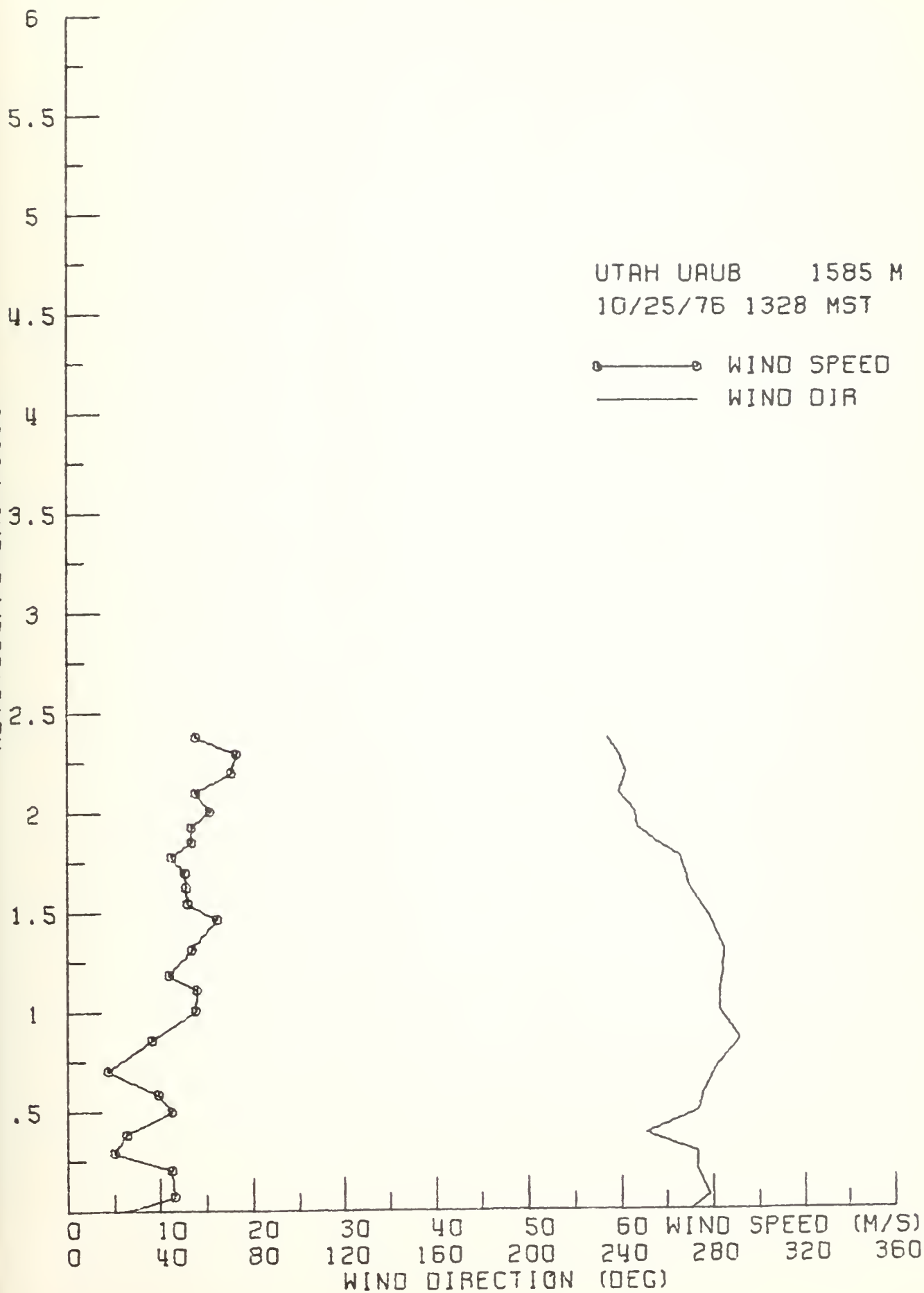


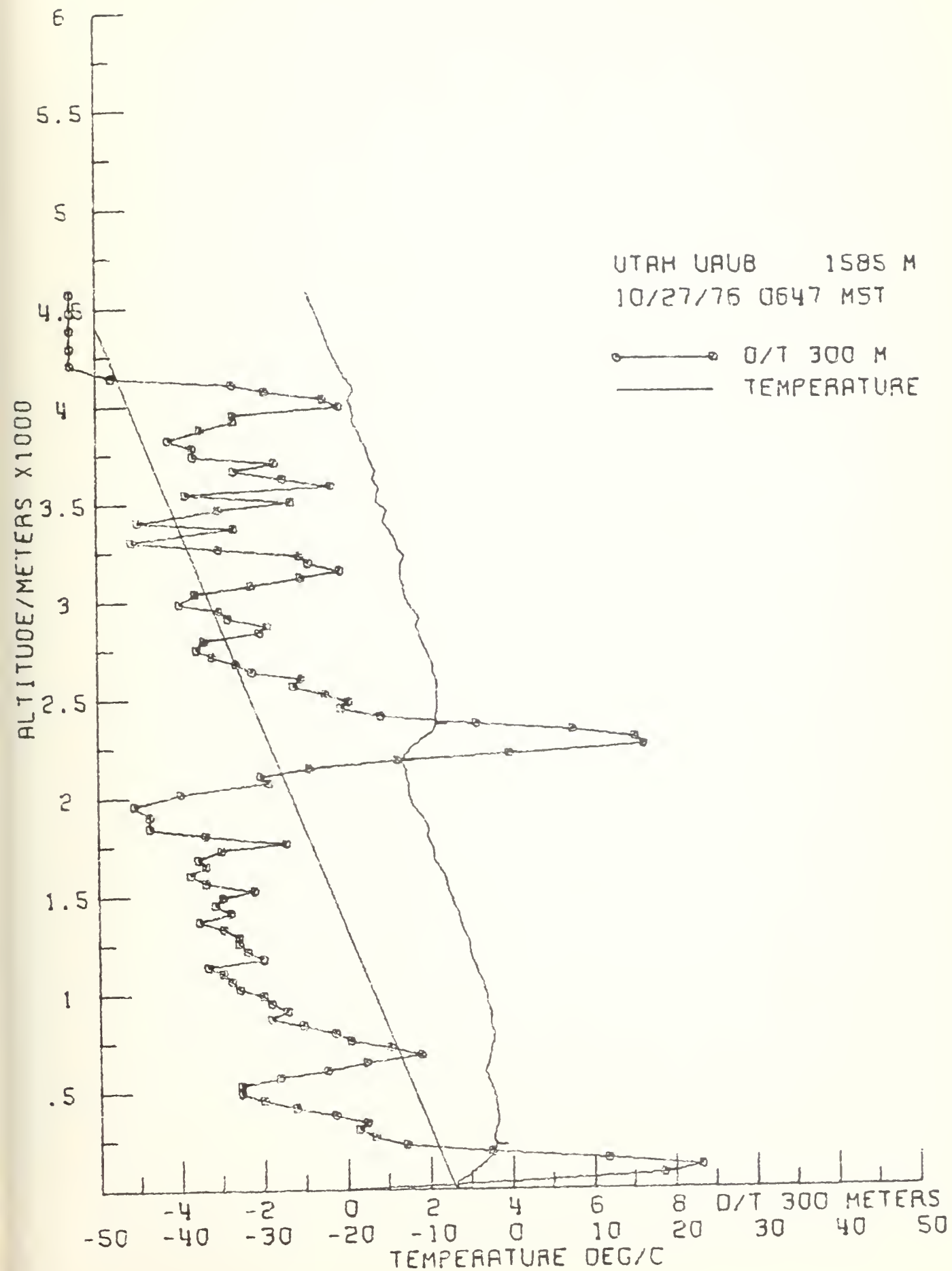


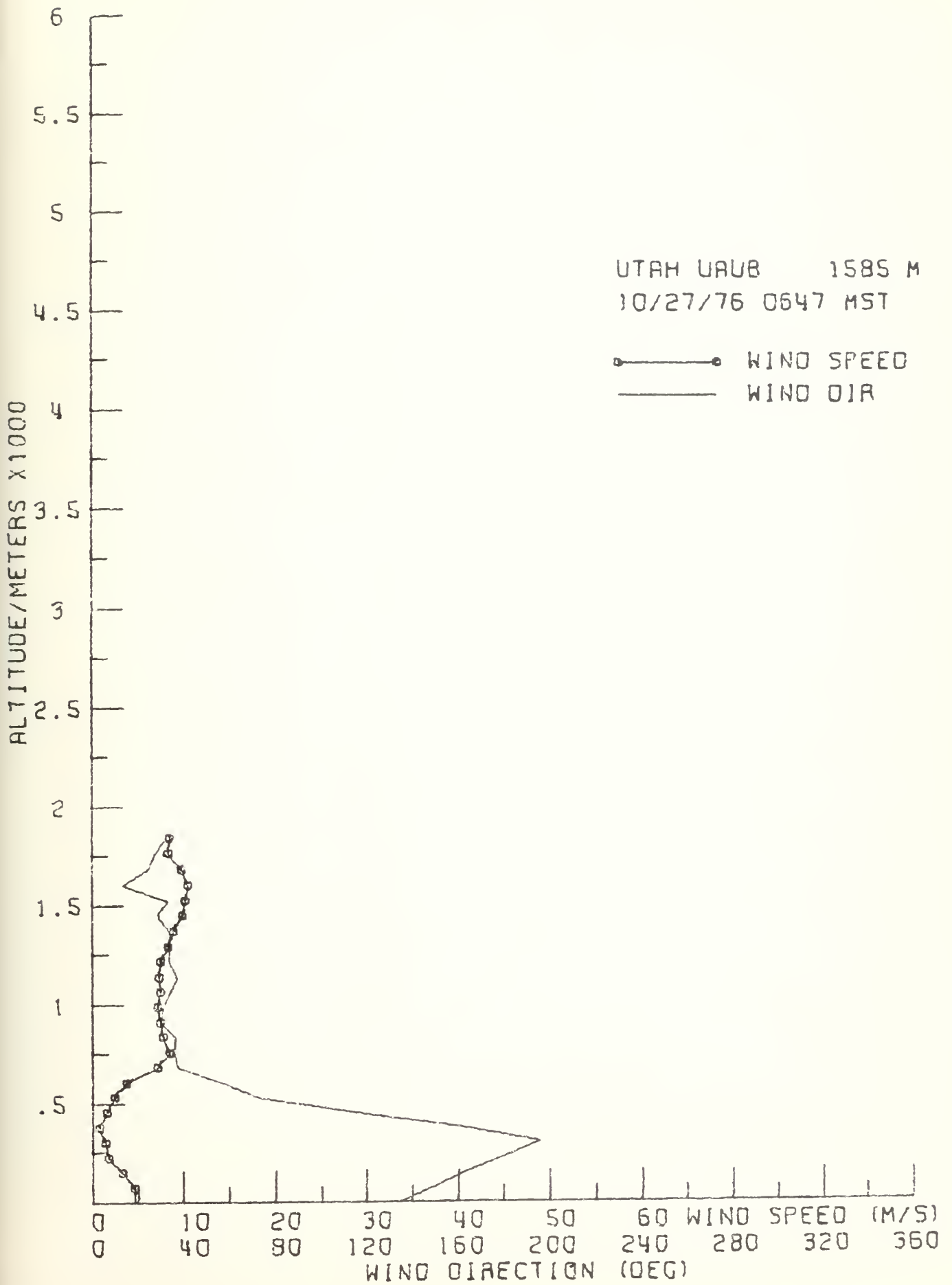
ALTITUDE/METERS X1000



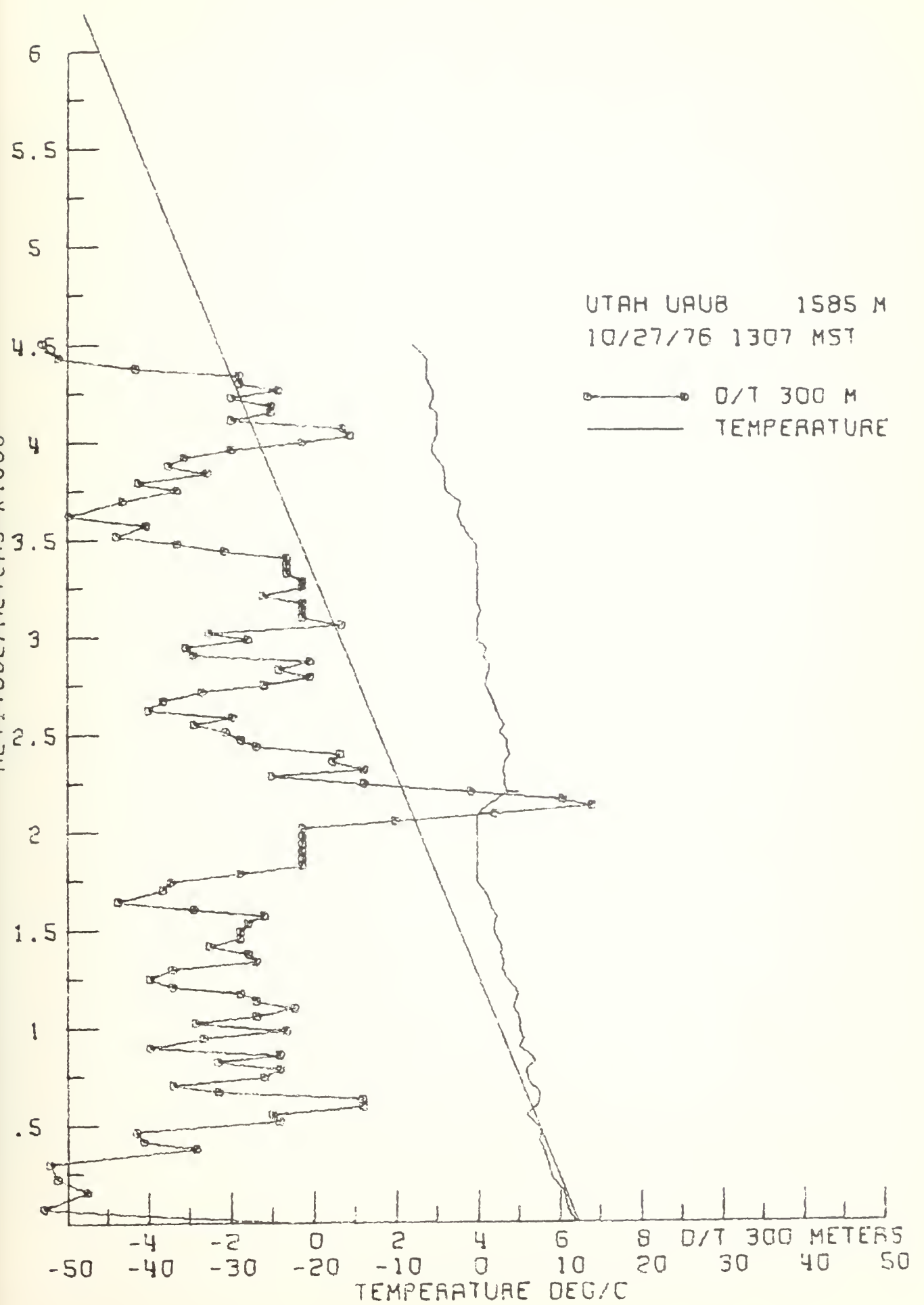
ALTITUDE/METERS X1000

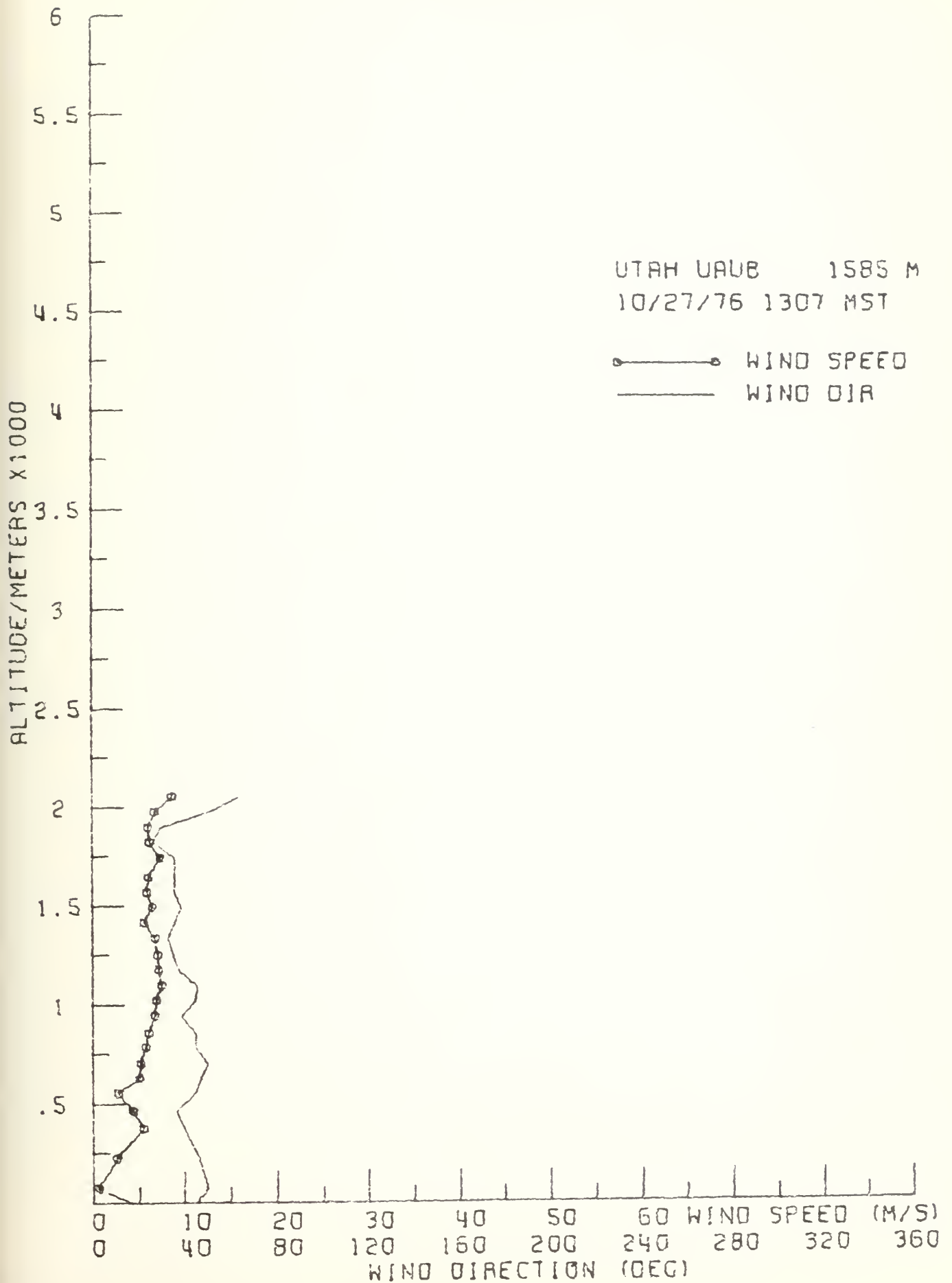


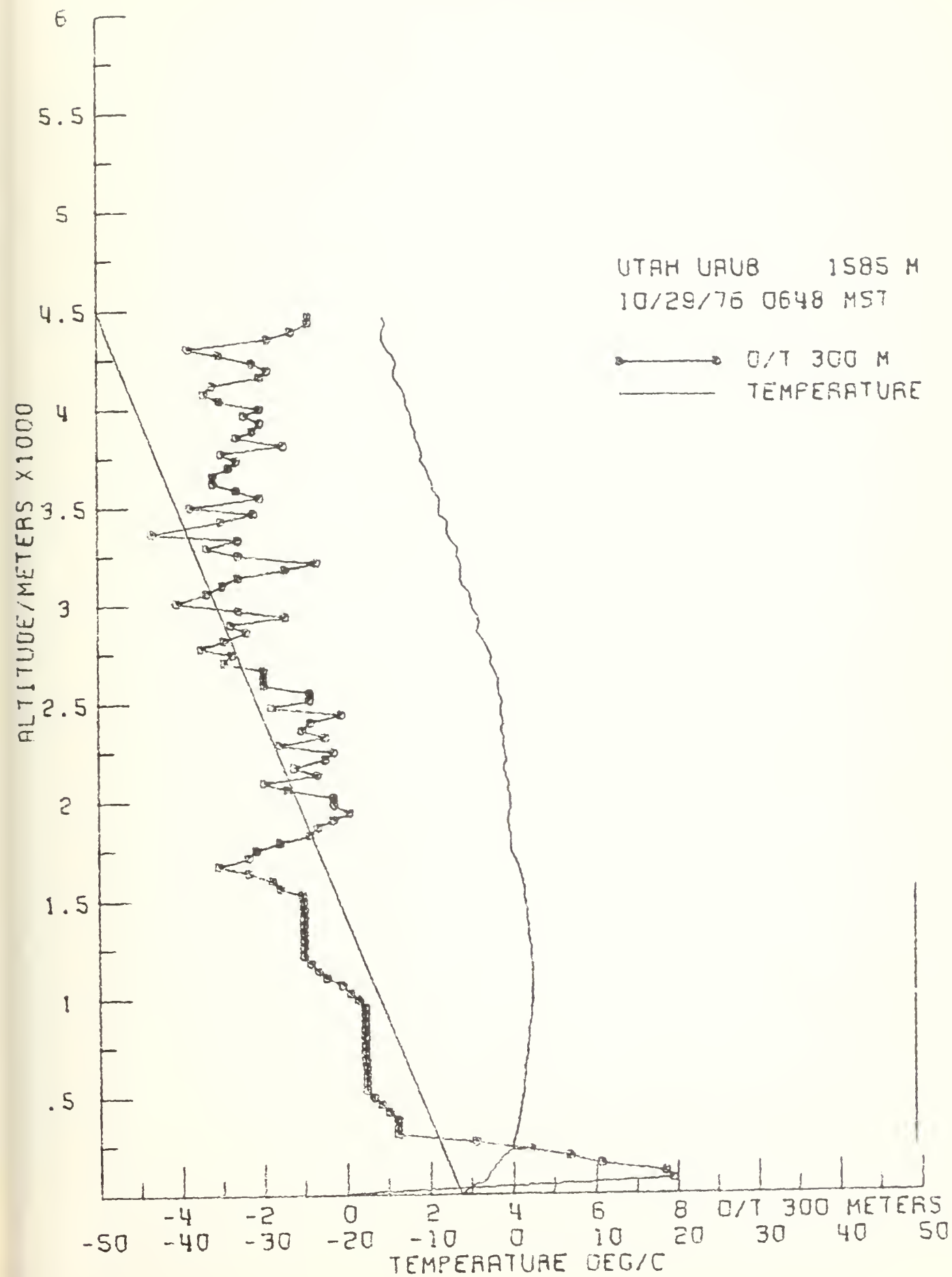


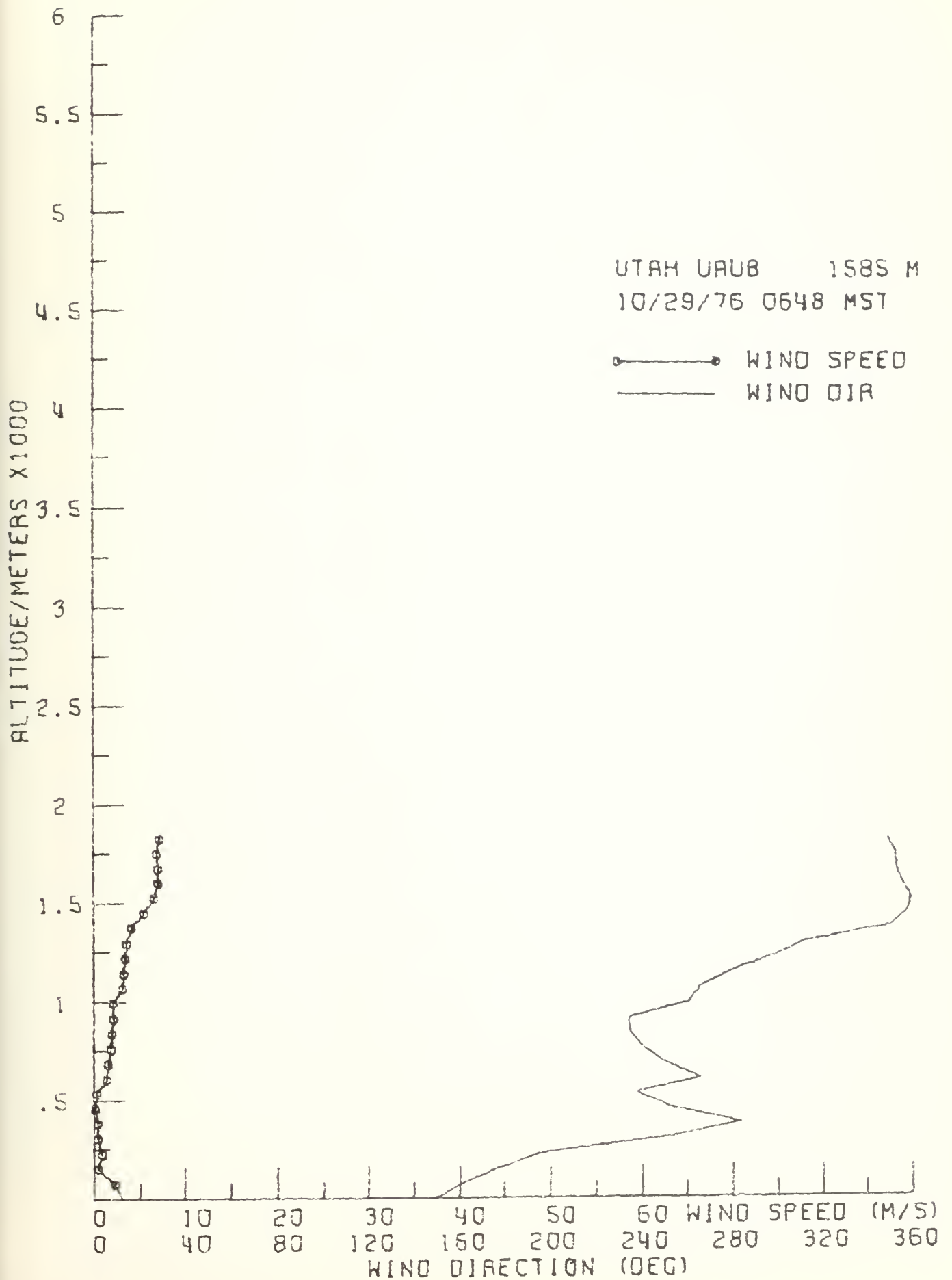


ALTITUDE/METERS X1000

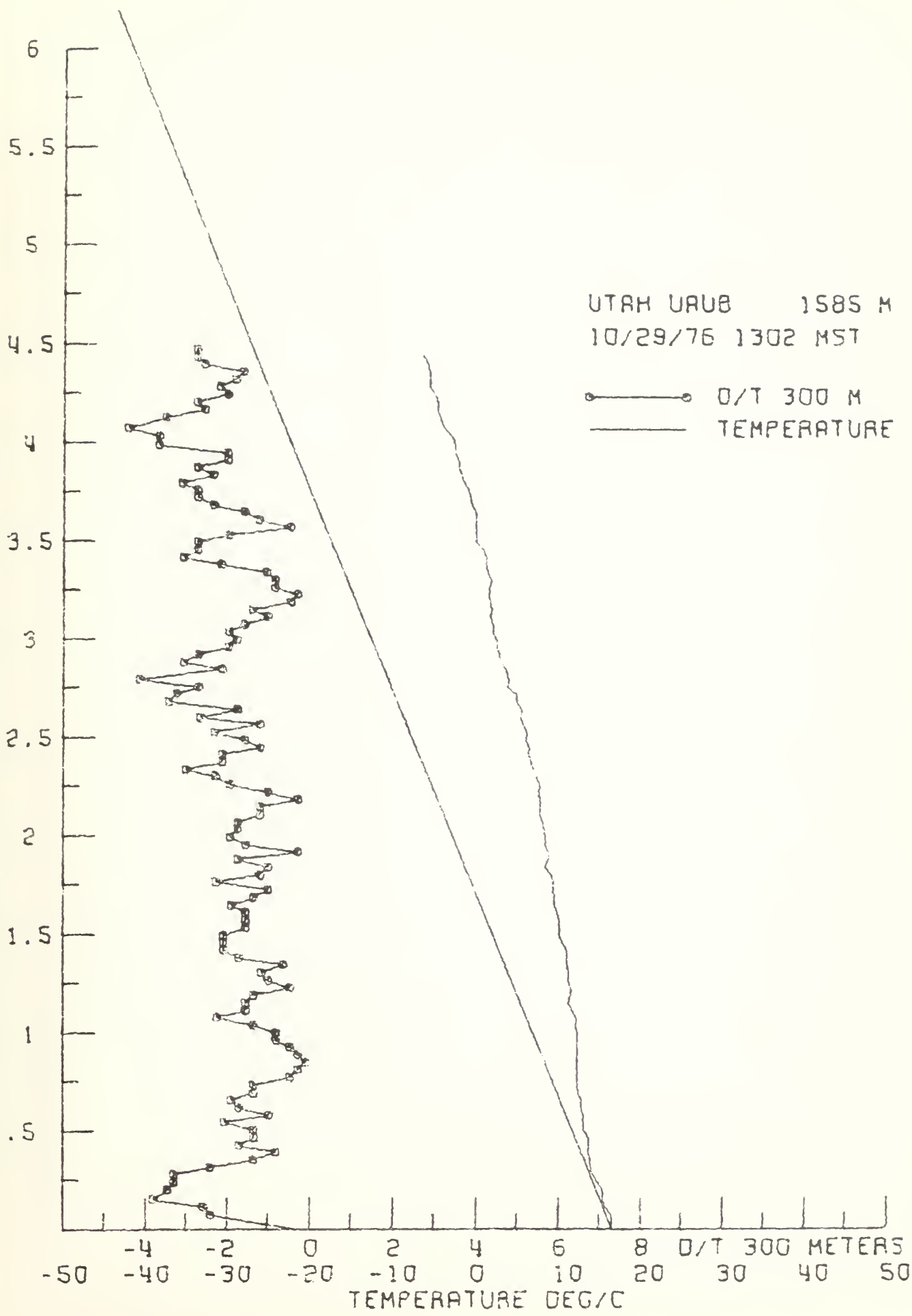


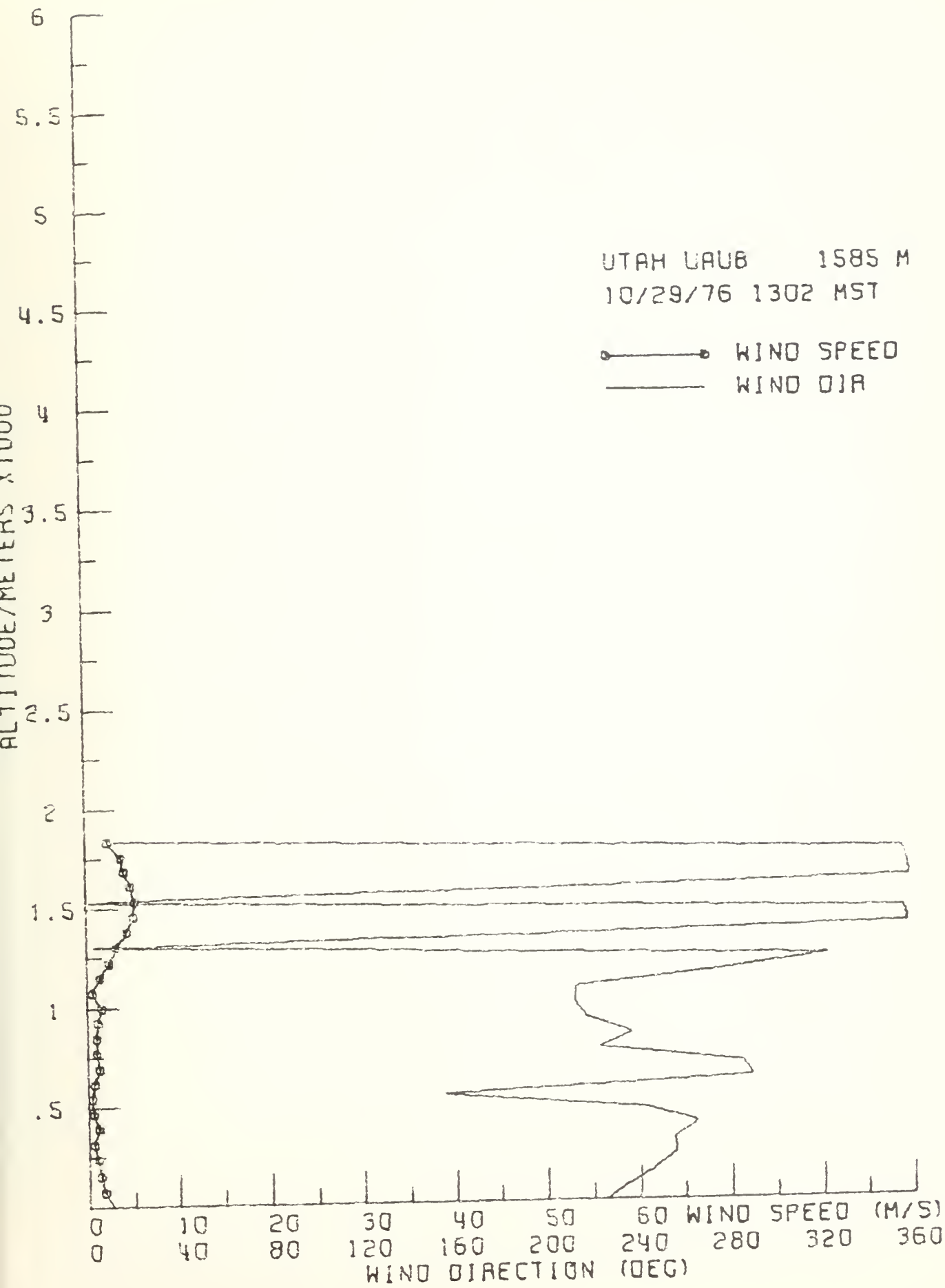




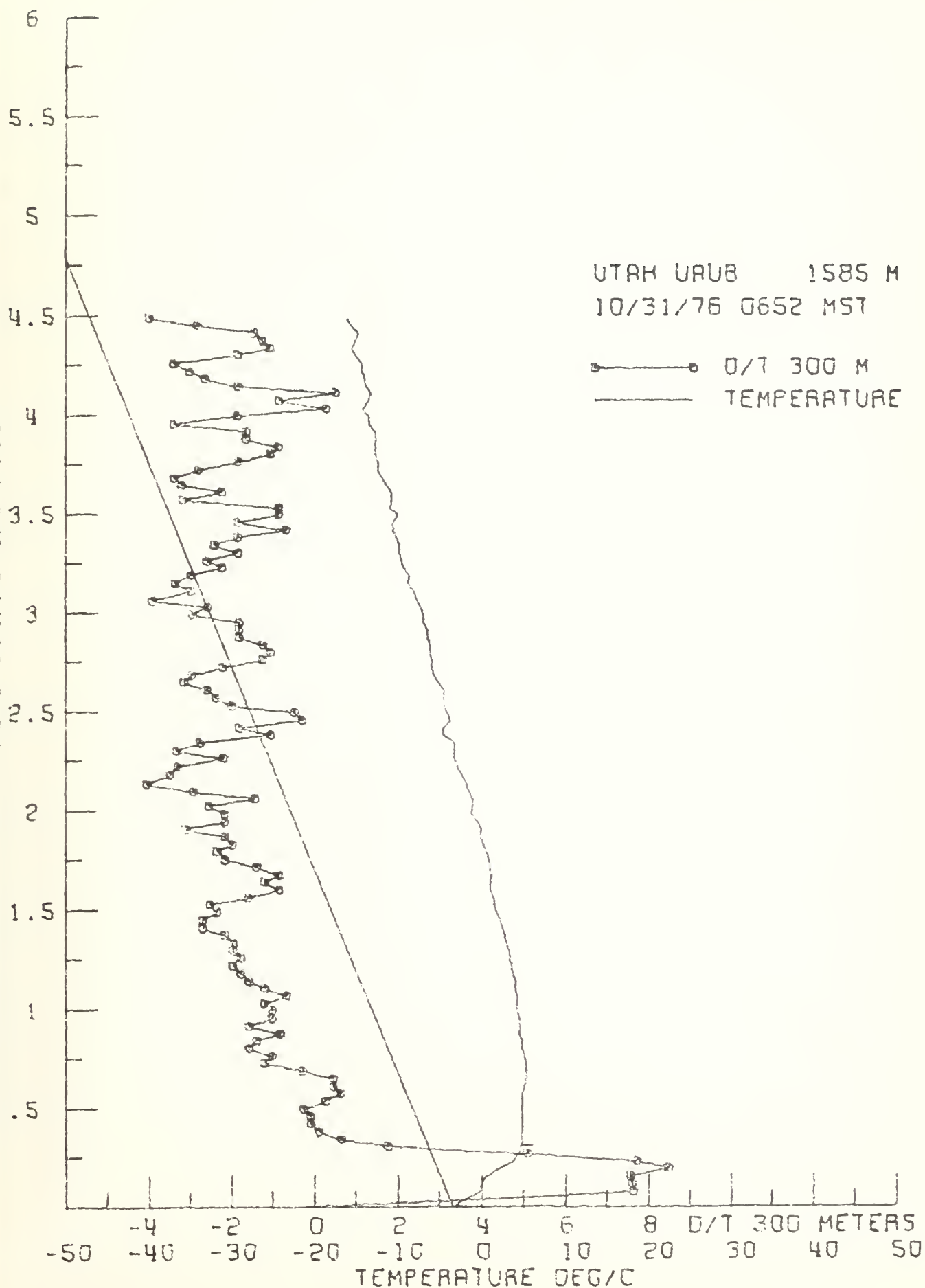


ALTITUDE/METERS X1000

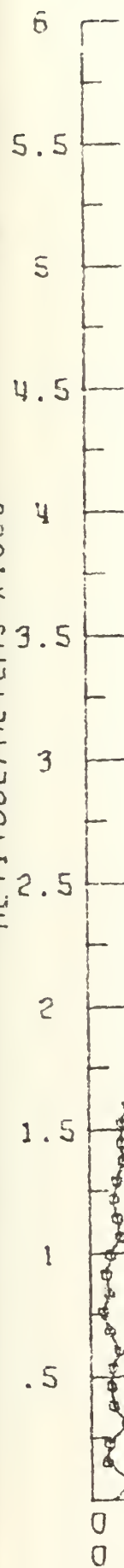




ALTITUDE/METERS X1000

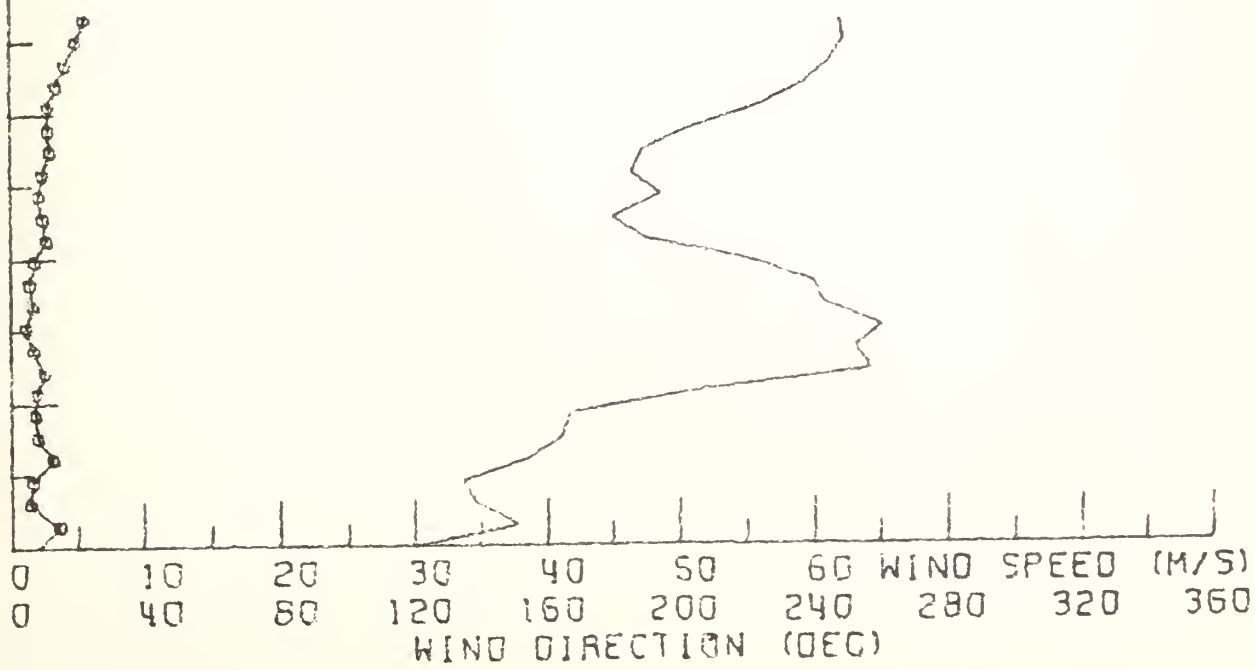


ALTITUDE/METERS X1000

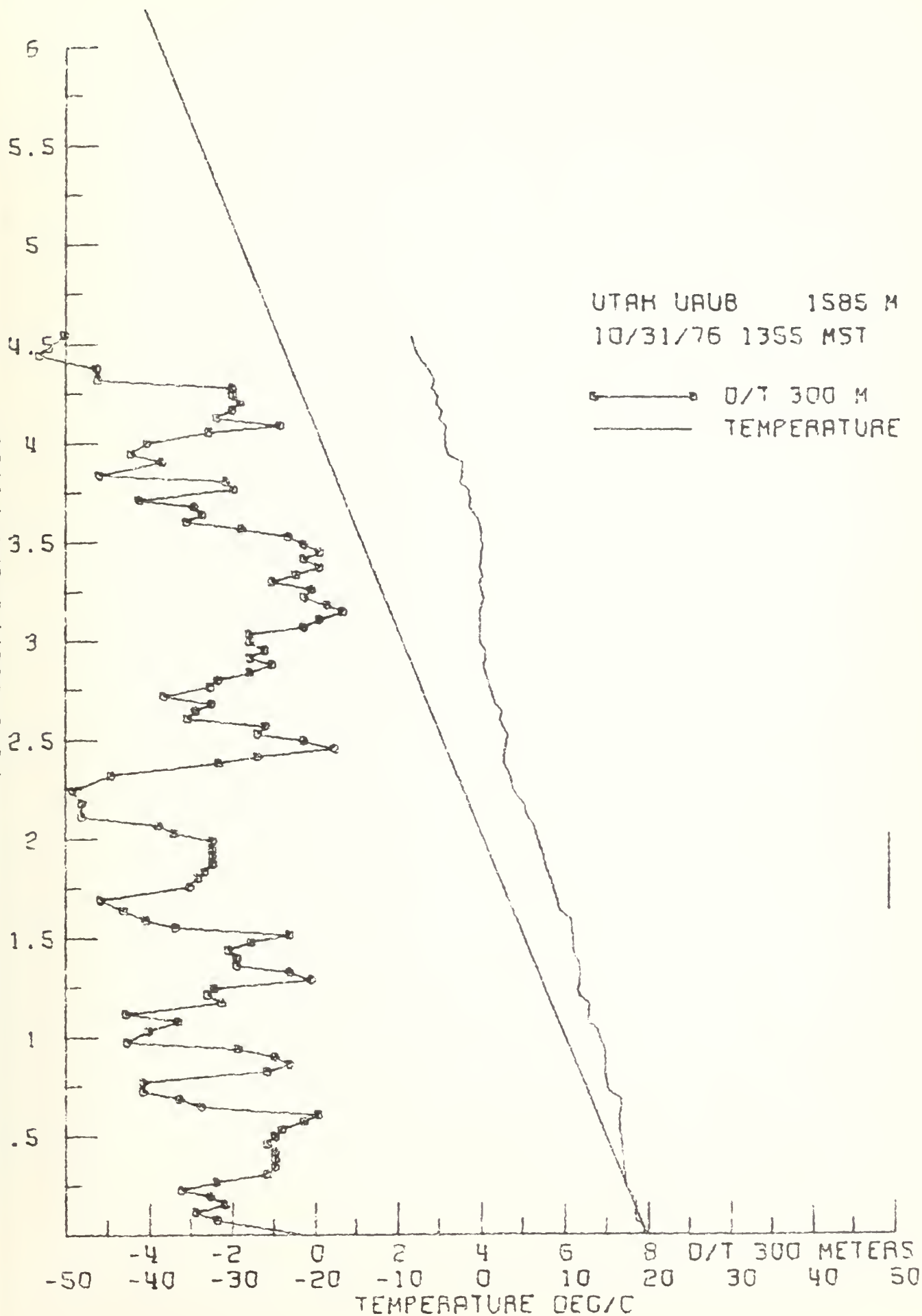


UTAH UAU8 1585 M
10/31/76 0652 MST

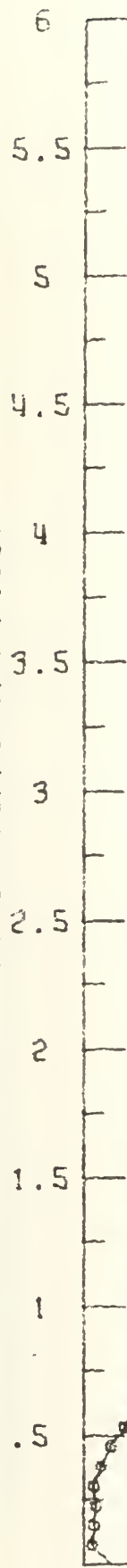
WIND SPEED
WIND DIR



ALTITUDE/METERS X1000

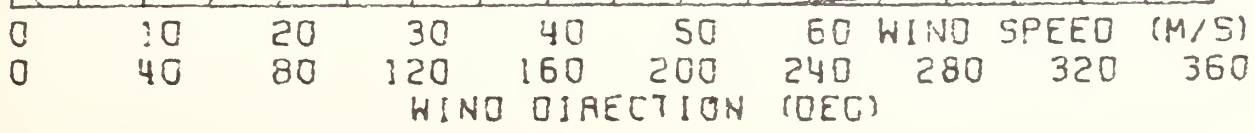


ALTITUDE/METERS X1000



UTAH LAUB 1585 M
10/31/76 1355 MST

—○— WIND SPEED
— WIND DIR



Form 1279-3
(June 1984)

BORROWER

DATE LOANED	BORROWER

USDI - BLM

RECEIVED

FEB 28 1977

OFFICE OF
AREA OFFICE SUPERVISOR
U.S. G.S.